

705  
SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: NGA B. NGUYEN Examiner #: 76428 Date: 6/6/00  
 Art Unit: 2764 Phone Number 305-2901 Serial Number: 03/020,057  
 Mail Box and Bldg/Room Location: 5X20 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Method for enhancing security and providing assistance in the operation of a self-service checkout terminal.

Inventors (please provide full names): Ali M. Vassaghi ; Joanne S. Walter

Earliest Priority Filing Date: 2/7/1997

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Method of providing security during operation of a self-service checkout terminal

- creating a transaction table including a plurality of records corresponding to items entered into checkout terminal

- generating a characteristic value

- comparing a characteristic value to a characteristic trigger point & generating a characteristic control signal in response thereto.

00-03-2000 P01:00

\*\*\*\*\*  
STAFF USE ONLY

## Type of Search

## Vendors and cost where applicable

Searcher: MD/LLS

NA Sequence (#) \_\_\_\_\_

STN \_\_\_\_\_

Searcher Phone #: 305-0757

AA Sequence (#) \_\_\_\_\_

DialogSearcher Location: ELC

Structure (#) \_\_\_\_\_

Questel/Orbit \_\_\_\_\_

Date Searcher Picked Up: 6/7

Bibliographic \_\_\_\_\_

Dr. Link \_\_\_\_\_

Date Completed: 6/7

Litigation \_\_\_\_\_

Lexis/Nexis \_\_\_\_\_

Searcher Prep & Review Time: 120

Fulltext \_\_\_\_\_

Sequence Systems \_\_\_\_\_

Clerical Prep Time: \_\_\_\_\_

Patent Family \_\_\_\_\_

WWW/InternetOnline Time: 100

Other \_\_\_\_\_

Other (specify) \_\_\_\_\_

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\* \* Cover Sheet \*  
\* \*  
\* \*  
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\*\*\* 09/020057 \*\*\*

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\* \* Prepared for: NGA Nguyen \*  
\* \*  
\* By : Malinda Garris \*  
\* \*  
\* Date : June 7, 2000 \*  
\* \*  
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HI,

Attached are your search results. Results are limited so please review and  
let me know if you have any questions.

My number is 305-0757

Malinda Garris  
Electronic Information Center

File 351:DERWENT WPI 1963-2000/UD=, UM=, & UP=200026

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File 347:JAPIO Oct 1976-1999/Dec(UPDATED 000530)

(c) 2000 JPO & JAPIO

Set	Items	Description
S1	2598	(SELF()SERVICE? OR POS OR CHECKOUT OR CHECK()OUT? ) (N4) (- REGISTER? OR TERMINAL? OR LANE? OR STATION?)
S2	17757	(TRIGGER? OR ALARM? OR ALERT?) (N2) (POINT? OR MECHANISM? - OR DEVICE?)
S3	2013078	COST? OR PRICE? OR VALUE? OR FEE? ?
S4	4610	(STOP? OR DETECT? OR CHECK? OR DETER? ? OR PREVENT?) (N4) - (THEFT? )
S5	40770	SECURITY
S6	3	S1 AND S2 AND S3
S7	1	S6 (S) (S4 OR S5)
S8	7	S1 AND S4
S9	6	S1 AND S2
?		

6/7/1 (Item 1 from file: 351)  
DIALOG(R)File 351:DERWENT WPI  
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010075760 \*\*Image available\*\*

WPI Acc No: 94-343473/199443

**Retail checkout system and customer operated checkout for retail stores - has scanner and marker/unmarker and radio link mounted on shopping cart with central computer to supply prices and monitor exits**

Patent Assignee: AT & T GLOBAL INFORMATION SOLUTIONS INT (AMTT )

Inventor: CHENOWETH S V; ETZEL D S; KUNTZ R E

Number of Countries: 003 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
EP 623904	A1	19941109	EP 94303177	A	19940503	G07G-001/00	199443 B

Priority Applications (No Type Date): US 9355998 A 19930503

Cited Patents: 1.Jnl.Ref; FR 2555339; FR 2645299; US 4071740; WO 9000785; WO 9016051; WO 9306564

Patent Details:

Patent	Kind	Lan	Pg	Filing	Notes	Application	Patent
EP 623904	A1	E	7				

Designated States (Regional): DE FR GB

Abstract (Basic): EP 623904 A

A retail checkout system (10) allows a customer together and pay for items without going through a **checkout lane**. The system includes a wireless checkout device (11) mounted on a shopping cart, which the customer uses to identify and pay for items. The checkout device (11) includes a wireless communication device (24), a scanner (18), and a marking/unmarking device (20). The marking/unmarking device (20) deactivates security devices on the items when the items are scanned and paid for.

The central computer (26) is linked by wireless network to the checkout device (11). A security system located at an exit and coupled to the computer (26) senses items which have not been deactivated by the marking/unmarking **device** (20) and **alerts** the computer (26) and security personnel.

ADVANTAGE - Avoids delays to customers at **checkout lanes** of retail stores.

Dwg.1/2

Derwent Class: T05

International Patent Class (Main): G07G-001/00

International Patent Class (Additional): G07F-007/02

6/7/2 (Item 2 from file: 351)  
DIALOG(R)File 351:DERWENT WPI  
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009324281 \*\*Image available\*\*

WPI Acc No: 93-017745/199302

**System for creating discount coupon in response to purchase of products - prints negative coupon in response to failure to purchase particular product and prints coupon in response to purchase of multiple triggering items**

Patent Assignee: CATALINA MARKETING INT INC (CATA-N)

Inventor: MINDRUM T L; OBRIEN M R; OFF G W; SCROGGIE M C

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
US 5173851	A	19921222	US 84631831	A	19840718	G06F-015/21	199302 B
			US 8720164	A	19870227		
			US 87129113	A	19871204		
			US 90465478	A	19900215	B	

Priority Applications (No Type Date): US 87129113 A 19871204; US 84631831 A 19840718; US 8720164 A 19870227; US 90465478 A 19900215

Patent Details:

Patent	Kind	Lan	Pg	Filing	Notes	Application	Patent
US 5173851	A		15	Cont of		US 84631831	
				CIP of		US 8720164	
				Div ex		US 87129113	
				CIP of			US 4723212
				Div ex			US 4910672

Abstract (Basic): US 5173851 A

The system has a number of **terminals** at customer **checkout** locations, each having a device for reading product codes on purchased items in a customer order. A store controller has terminals which can communicate. The store controller has access to an item record file containing **price** and other information for each product item. A memory stores the terms of at least one coupon deal in which the printing of a discount coupon for a selected product is triggered by the purchase of a number of products.

A **device** identifies the **triggering** products in the customer order. A **device** associates the **triggering** products with the coupon deal. An appts. automatically prints at least one discount coupon based on the details of the coupon deal and without the intervention or participation of the customer other than in purchasing the triggering products.

USE - In shop or retail outlet.

Dwg.1/6

Derwent Class: T01; T05

International Patent Class (Main): G06F-015/21

6/7/3 (Item 1 from file: 347)

DIALOG(R)File 347:JAPIO

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06006278 \*\*Image available\*\*

~~CASH REGISTER AND POS SYSTEM USING THE SAME~~

*Good but not app. filing day*

PUB. NO.: 10-289378 [JP 10289378 A]  
PUBLISHED: October 27, 1998 (19981027)  
INVENTOR(s): AIKAWA HIROYUKI  
APPLICANT(s): TEC CORP [000356] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 09-096970 [JP 9796970]  
FILED: April 15, 1997 (19970415)

ABSTRACT

PROBLEM TO BE SOLVED: To automatically acquire the exact busy condition of checkout counter by judging the level of congestion based on a total merchandise point value and a total customer value and issuing an busy alarm when the congestion is judged.

SOLUTION: A CPU 201 reads the current date and time counted by a clock part 204, reads the total sales point calculated by a point summing-up device on a RAM 203, prepares an operating condition merchandise record and sends it to an operating condition record file. Next, each time one code is read out of the detailed operating condition records stored in the file, a real sales customer number and a real sales point are added. Then, it is discriminated whether the real number of sales customers in an operating condition managing table is more than the caution number of customers or not and when it is more than the caution number of customers, it is discriminated whether the real sales point in the operating condition managing table is more than a caution point or not. When it is more than the caution point, a busy alarm message is transmitted to a test processor. Thus, it is not necessary for the manager of shop to really visually confirm and monitor the busy conditions of check-out counter at all the time.

7/7/1 (Item 1 from file: 351)

DIALOG(R)File 351:DERWENT WPI

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010075760 \*\*Image available\*\*

WPI Acc No: 94-343473/199443

**Retail checkout system and customer operated checkout for retail stores - has scanner and marker/unmarker and radio link mounted on shopping cart with central computer to supply prices and monitor exits**

Patent Assignee: AT & T GLOBAL INFORMATION SOLUTIONS INT (AMTT )

Inventor: CHENOWETH S V; ETZEL D S; KUNTZ R E

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Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
EP 623904	A1	19941109	EP 94303177	A	19940503	G07G-001/00	199443 B

Priority Applications (No Type Date): US 9355998 A 19930503

Cited Patents: 1.Jnl.Ref: FR 2555339; FR 2645299; US 4071740; WO 9000785; WO 9016051; WO 9306564

Patent Details:

Patent	Kind	Lan	Pg	Filing Notes	Application	Patent
EP 623904	A1	E	7			

Designated States (Regional): DE FR GB

Abstract (Basic): EP 623904 A

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The central computer (26) is linked by wireless network to the checkout device (11). A security system located at an exit and coupled to the computer (26) senses items which have not been deactivated by the marking/unmarking **device** (20) and **alerts** the computer (26) and **security** personnel.

ADVANTAGE - Avoids delays to customers at checkout lanes of retail stores.

Dwg.1/2

Derwent Class: T05

International Patent Class (Main): G07G-001/00

International Patent Class (Additional): G07F-007/02

8/7/1 (Item 1 from file: 351)

DIALOG(R) File 351:DERWENT WPI

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012794412 \*\*Image available\*\*

WPI Acc No: 99-600641/199951

**Item shuffling monitoring method for self service checkout terminals in retail grocery shops, supermarkets**

Patent Assignee: NCR INT INC (NATC ); NCR CORP (NATC )

Inventor: LUTZ D L; MALCHAK C A; MASON T E; MASSIGH A M; VASSIGH A M

Number of Countries: 026 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
US 5967264	A	19991019	US 9871024	A	19980501	A47F-009/04	199951 B
EP 953948	A2	19991103	EP 99303392	A	19990429	G07G-001/00	199951

Priority Applications (No Type Date): US 9871024 A 19980501

Patent Details:

Patent	Kind	Lan	Pg	Filing Notes	Application	Patent
US 5967264	A		28			
EP 953948	A2	E				

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

Abstract (Basic): US 5967264 A

NOVELTY - When the removal of several items from a post- scan shelf is detected, the weight of the items is computed as a weight decrease value. When the placement of the items into a grocery bag is detected, the weight of the items is computed as weight increase value. A match control signal is generated when the weight decrease value matches with the weight increase value.

USE - For **self service checkout terminals** in retail grocery shops, supermarkets.

ADVANTAGE - The instances of improprieties such as **theft** are **prevented** effectively by **detecting** the placement of unsecured item into a grocery bag or post-scan shelf immediately.

DESCRIPTION OF DRAWING(S) - The figure shows a perspective view of **self service checkout terminal** .

pp; 28 DwgNo 1/6

Derwent Class: P27; S02; T01; T04; T05; W01; W05

International Patent Class (Main): A47F-009/04; G07G-001/00

International Patent Class (Additional): G01G-019/415

8/7/2 (Item 2 from file: 351)

DIALOG(R)File 351:DERWENT WPI

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012486978 \*\*Image available\*\*

WPI Acc No: 99-293086/199925

**Money transfer apparatus installed adjacent to point of sale terminal in e.g. bank, shop - has transparent rectangle box for containing deposited money, on same side of which bank note retainer and coin retainer are formed, so that money is inserted and extracted in only one direction**

Patent Assignee: TOKYO ELECTRIC CO LTD (TODK )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
JP 11096458	A	19990409	JP 97254440	A	19970919	G07G-001/00	199925 B

Priority Applications (No Type Date): JP 97254440 A 19970919

Patent Details:

Patent	Kind	Lan	Pg	Filing	Notes	Application	Patent
JP 11096458	A		4				

Abstract (Basic): JP 11096458 A

NOVELTY - The transparent rectangle box (7) contains deposited money which are bank note (B) and coin (C). The bank note retainer (14) and coin retainer (15) are formed on the same side of the box, so that money is inserted and extracted in only one direction.

USE - For bank, financial institution, shop.

ADVANTAGE - **Prevents theft** of money. DESCRIPTION OF DRAWING(S) - The figure shows perspective view of money transfer apparatus installed in **POS terminal** . (7) Transparent rectangle box; (14) Bank note retainer; (15) Coin retainer; (B) Bank note; (C) Coin.

Dwg.3/5

Derwent Class: T05

International Patent Class (Main): G07G-001/00

8/7/3 (Item 3 from file: 351)

DIALOG(R)File 351:DERWENT WPI

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012392684 \*\*Image available\*\*

WPI Acc No: 99-198791/199917

**Automatic bill conveyor for POS terminal - has ejector for ejecting out bill from stacker after change is conveyed between bill inlet and stacker**

Patent Assignee: ACE DENKEN KK (ACED-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
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JP 11043224 A 19990216 JP 97201290 A 19970728 B65G-051/32 199917 B

Priority Applications (No Type Date): JP 97201290 A 19970728

Patent Details:

Patent	Kind	Lan	Pg	Filing	Notes	Application	Patent
JP 11043224	A		16				

Abstract (Basic): JP 11043224 A

NOVELTY - A pipe (300) which has capsule (400) connects bill inlet (100) and a stacker (200). An air current generator (500) generates air current in the pipe and moves the capsule between the bill inlet and the stacker. An ejector ejects out the bill from the stacker. DETAILED DESCRIPTION - A bill inlet (100) which has an inlet port (101) for inserting bill is provided inside a shop. A stacker (200) which is installed in a safe stores the input bill.

USE - For POS terminal .

ADVANTAGE - Money is automatically collected in a safe. Sales clerks time is saved by supplying bill for change automatically. Safety is improved by **preventing theft** . DESCRIPTION OF DRAWING(S) - The diagram shows the entire structure of automatic bill conveyor. (100) Bill inlet; (101) Inlet port; (200) Stacker; (300) Pipe; (400) Capsule; (500) Air current generator.

Dwg.1/21

Derwent Class: P36; Q35; T05

International Patent Class (Main): B65G-051/32

International Patent Class (Additional): A63F-007/02

8/7/4 (Item 4 from file: 351)

DIALOG(R)File 351:DERWENT WPI

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011868980 \*\*Image available\*\*

WPI Acc No: 98-285890/199825

\*Self-service checkout or point-of-sale station used in retail industry - includes processing unit coupled to scanner, sensor and recorder to cause recorder to playback visual recording on display monitor when processing unit receives second signal but not first signal

Patent Assignee: NCR INT INC (NATC ); NCR CORP (NATC )

Inventor: FLYNN T L; WALTER J S

Number of Countries: 020 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
US 5747784	A	19980505	US 96735424	A	19961022	G06F-017/00	199825 B
EP 847032	A2	19980610	EP 97307959	A	19971008	G07G-001/00	199827
JP 10208149	A	19980807	JP 97286323	A	19971020	G07G-001/12	199842

Priority Applications (No Type Date): US 96735424 A 19961022

Patent Details:

Patent	Kind	Lan	Pg	Filing	Notes	Application	Patent
US 5747784	A		9				
EP 847032	A2	E					

Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

JP 10208149 A 9

Abstract (Basic): US 5747784 A

The station includes a scanner (22) which generates a first signal when it detects a machine readable code associated with an item. A sensor generates a second signal when the sensor detects a motion used to scan the item across the scanner. A video recorder (27) generates a visual recording of the motion used to scan the item across the scanner.

A processing unit (28) coupled to the scanner, the sensor and the recorder causes the recorder to playback the visual recording on a display monitor when the processing unit receives the second signal but not the first signal. The recorder includes a camera which captures a video image of the motion used to scan the item across the scanner, and

a storage unit (35) which stores the video image. The sensor includes imaging software which analyses the video image to detect the motion used to scan the item across the scanner.

ADVANTAGE - has security enhancing device to **prevent theft** and other improprieties.

Dwg.2/5

Derwent Class: T01; T04; T05

International Patent Class (Main): G06F-017/00; G07G-001/00; G07G-001/12

International Patent Class (Additional): A47F-009/04; G06F-017/60;

G07G-003/00

**8/7/5 (Item 5 from file: 351)**

DIALOG(R)File 351:DERWENT WPI

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010686647 \*\*Image available\*\*

WPI Acc No: 96-183603/199619

**Theft prevention mechanism for receipt printer e.g. in electronic cash register, POS system - has inversion prevention mechanism which controls rotation direction of receipt paper so it does not roll back into take-up reel**

Patent Assignee: TOKYO ELECTRIC CO LTD (TODK )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
JP 8058198	A	19960305	JP 94201686	A	19940826	B41J-029/54	199619 B

Priority Applications (No Type Date): JP 94201686 A 19940826

Patent Details:

Patent	Kind	Lan	Pg	Filing Notes	Application	Patent
JP 8058198	A		5			

Abstract (Basic): JP 8058198 A

The mechanism (31) has a take up reel (5) which rolls a receipt paper (1). A receipt paper plug mouth (32c) is provided at one end of a cylindrical part (32). A lock mechanism (17) is provided with a key to lock the cylindrical part to the printer main part (6). An inversion prevention mechanism (33) controls the rotation direction of the receipt paper such that it does not roll back into the take up reel.

ADVANTAGE - Prevents cutting of rolled receipt paper portion to reduce embezzlement of money.

Dwg.1/8

Derwent Class: P75; Q36; T04; T05

International Patent Class (Main): B41J-029/54

International Patent Class (Additional): B41J-015/16; B65H-019/20;

G07G-001/06

**8/7/6 (Item 6 from file: 351)**

DIALOG(R)File 351:DERWENT WPI

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004526939

WPI Acc No: 86-030283/198605

**Theft reduction appts. for retail store - comprises dis-possessing device including console onto which items identified for purchase are placed**

Patent Assignee: BOGASKY J J (BOGA-I)

Inventor: BOGASKY J J

Number of Countries: 013 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
EP 169649	A	19860129	EP 85304219	A	19850613		198605 B
US 4583083	A	19860415	US 84625821	A	19840628		198618
CA 1246225	A	19881206					198902
EP 169649	B	19910529					199122
DE 3582972	G	19910704					199128

Priority Applications (No Type Date): US 84625821 A 19840628  
Cited Patents: A3...8709; FR 2252069; No-SR.Pub; US 3088544; US 3896372; US 4384281; US 4392553

Patent Details:

Patent	Kind	Lang	Pg	Filing	Notes	Application	Patent
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EP 169649	A	E	25				
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Designated States (Regional): AT BE CH DE FR GB IT LI LU NL SE

EP 169649	B						
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Designated States (Regional): AT BE CH DE FR GB IT LI LU NL SE

Abstract (Basic): EP 169649 B

The **checkout station** comprises a device through which the shopper must pass to leave the store that dispossesses the shopper from those items from the store which the shopper identifies for purchase. A sensing device detects the presence of items carrying **theft prevention** indicators in the possession of the shopper after the shopper has been dispossessed of items identified for purchase. Cashier stations are physically separated from the sensing devices to a sufficient extent to avoid electrical or magnetic interference with the sensing device.

The total cost of the items identified by the shopper for purchase is printed. At a pick-up area the shopper is returned possession of the items after the total cost has been printed out and paid for.

USE/ADVANTAGE - Supermarkets. Requires least amount of redesign with max. sensitivity. (25pp Dwg.No.5/9

Abstract (Equivalent): EP 169649 B

A **checkout station** (200) for reducing **theft** from a store containing items bearing **theft prevention** indicators, the **checkout station** comprising means through which a shopper must pass to leave the store, for dispossessing the shopper from those of the items bearing the **theft prevention** indicators which the shopper designates for purchase; a secure area (210) into which the shopper enters after the items identified for purchase have been dispossessed from the shopper; a pickup area (255) in which the items identified for purchase are returned to the possession of the shopper; exit means (240), located between the secure area, for permitting the shopper to leave the secure area without the items designated for the purchase, the exit means including sensing means (230) for detecting the presence of any items bearing **theft prevention** indicators remaining with the shopper as the shopper leaves the secure area through the exit means, and cashier stations (140), physically separated from the sensing means to a sufficient extent to avoid electrical or magnetic interference with the sensing means, for printing the total cost of the items identified by the shopper for purchase and for receiving payment from the shopper corresponding to the total cost after the items identified by the shopper for purchase have been dispossessed from the shopper characterised in that the arrangement is such that the shopper and the items identified for purchase enter the secure area after the items identified for purchase have been dispossessed from the shopper and before the items identified for purchase and the shopper separately enter the pickup area; and in that egress means (250) is located between the secure area and the pick-up area (255) for removing the items identified for purchase from the secure area without the shopper. (12pp)

Abstract (Equivalent): US 4583083 A

Items bearing the **theft prevention** indicators which the shopper designates for purchase are removed before the shopper leaves the store. The shopper and the items identified for purchase enter a secure area after the items identified for purchase have been dispossessed. A pickup area is provided in which the items identified for purchase are returned to the possession of the shopper.

Between the secure area and the pick-up area, the items identified for purchase are removed from the secure area without the shopper. Between the secure area and the pick-up area, the shopper is permitted to leave the secure area without the items designated for purchase. The exit area includes a sensor for detecting the presence of any items bearing **theft prevention** indicators remaining with the shopper as the shopper leaves the secure area through the exit. (9pp)g

Derwent Class: P27; T05  
International Patent Class (Additional): A47F-010/02; G07G-001/06;  
G08B-013/24

8/7/7 (Item 7 from file: 351)  
DIALOG(R)File 351:DERWENT WPI  
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001115808  
WPI Acc No: 74-L2272V/197448  
Theft prevention system for stores etc. - employs clips on articles  
which may only be detached by electric current at check-out station  
Patent Assignee: CHECK MATE SYSTEMS (CHEC-N)  
Number of Countries: 003 Number of Patents: 003  
Patent Family:  
Patent No Kind Date Applicat No Kind Date Main IPC Week  
GB 1375873 A 19741127 197448 B  
CA 972848 A 19750812 197535  
DE 2204569 B 19800717 198030

Priority Applications (No Type Date): US 71112355 A 19710203  
Derwent Class: P27; W05  
International Patent Class (Additional): A47F-010/00; G08B-013/14

9/7/1 (Item 1 from file: 351)  
DIALOG(R)File 351:DERWENT WPI  
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010075760 \*\*Image available\*\*  
WPI Acc No: 94-343473/199443  
Retail checkout system and customer operated checkout for retail stores -  
has scanner and marker/unmarker and radio link mounted on shopping cart  
with central computer to supply prices and monitor exits  
Patent Assignee: AT & T GLOBAL INFORMATION SOLUTIONS INT (AMTT )  
Inventor: CHENOWETH S V; ETZEL D S; KUNTZ R E  
Number of Countries: 003 Number of Patents: 001  
Patent Family:  
Patent No Kind Date Applicat No Kind Date Main IPC Week  
EP 623904 A1 19941109 EP 94303177 A 19940503 G07G-001/00 199443 B

Priority Applications (No Type Date): US 9355998 A 19930503  
Cited Patents: 1.Jnl.Ref; FR 2555339; FR 2645299; US 4071740; WO 9000785;  
WO 9016051; WO 9306564

Patent Details:  
Patent Kind Lan Pg Filing Notes Application Patent  
EP 623904 A1 E 7  
Designated States (Regional): DE FR GB

Abstract (Basic): EP 623904 A

A retail checkout system (10) allows a customer together and pay  
for items without going through a **checkout lane**. The system  
includes a wireless checkout device (11) mounted on a shopping cart,  
which the customer uses to identify and pay for items. The checkout  
device (11) includes a wireless communication device (24), a scanner  
(18), and a marking/unmarking device (20). The marking/unmarking device  
(20) deactivates security devices on the items when the items are  
scanned and paid for.

The central computer (26) is linked by wireless network to the  
checkout device (11). A security system located at an exit and coupled  
to the computer (26) senses items which have not been deactivated by  
the marking/unmarking device (20) and **alerts** the computer (26) and  
security personnel.

ADVANTAGE - Avoids delays to customers at **checkout lanes** of  
retail stores.

Dwg.1/2

Derwent Class: T05  
International Patent Class (Main): G07G-001/00

International Patent Class (Additional): G07F-007/02

9/7/2 (Item 2 from file: 351)

DIALOG(R)File 351:DERWENT WPI

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009324281 \*\*Image available\*\*

WPI Acc No: 93-017745/199302

**System for creating discount coupon in response to purchase of products - prints negative coupon in response to failure to purchase particular product and prints coupon in response to purchase of multiple triggering items**

Patent Assignee: CATALINA MARKETING INT INC (CATA-N)

Inventor: MINDRUM T L; OBRIEN M R; OFF G W; SCROGGIE M C

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
US 5173851	A	19921222	US 84631831	A	19840718	G06F-015/21	199302 B
			US 8720164	A	19870227		
			US 87129113	A	19871204		
			US 90465478	A	19900215	B	

Priority Applications (No Type Date): US 87129113 A 19871204; US 84631831 A 19840718; US 8720164 A 19870227; US 90465478 A 19900215

Patent Details:

Patent	Kind	Lan	Pg	Filing Notes	Application	Patent
US 5173851	A		15	Cont of	US 84631831	
				CIP of	US 8720164	
				Div ex	US 87129113	
				CIP of		US 4723212
				Div ex		US 4910672

Abstract (Basic): US 5173851 A

The system has a number of **terminals** at customer **checkout** locations, each having a device for reading product codes on purchased items in a customer order. A store controller has terminals which can communicate. The store controller has access to an item record file containing price and other information for each product item. A memory stores the terms of at least one coupon deal in which the printing of a discount coupon for a selected product is triggered by the purchase of a number of products.

A **device** identifies the **triggering** products in the customer order. A **device** associates the **triggering** products with the coupon deal. An appts. automatically prints at least one discount coupon based on the details of the coupon deal and without the intervention or participation of the customer other than in purchasing the triggering products.

USE - In shop or retail outlet.

Dwg.1/6

Derwent Class: T01; T05

International Patent Class (Main): G06F-015/21

9/7/3 (Item 1 from file: 347)

DIALOG(R)File 347:JAPIO

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06006278 \*\*Image available\*\*

*good* CASH REGISTER AND POS SYSTEM USING THE SAME

PUB. NO.: 10-289378 [JP 10289378 A]

PUBLISHED: October 27, 1998 (19981027)

INVENTOR(s): AIKAWA HIROYUKI

APPLICANT(s): TEC CORP [000356] (A Japanese Company or Corporation), JP (Japan)

APPL. NO.: 09-096970 [JP 9796970]

FILED: April 15, 1997 (19970415)

N/8

#### ABSTRACT

PROBLEM TO BE SOLVED: To automatically acquire the exact busy condition of checkout counter by judging the level of congestion based on a total merchandise point value and a total customer value and issuing an busy alarm when the congestion is judged.

SOLUTION: A CPU 201 reads the current date and time counted by a clock part 204, reads the total sales point calculated by a point summing-up device on a RAM 203, prepares an operating condition merchandise record and sends it to an operating condition record file. Next, each time one code is read out of the detailed operating condition records stored in the file, a real sales customer number and a real sales point are added. Then, it is discriminated whether the real number of sales customers in an operating condition managing table is more than the caution number of customers or not and when it is more than the caution number of customers, it is discriminated whether the real sales point in the operating condition managing table is more than a caution point or not. When it is more than the caution point, a busy alarm message is transmitted to a test processor. Thus, it is not necessary for the manager of shop to really visually confirm and monitor the busy conditions of check-out counter at all the time.

9/7/4 (Item 2 from file: 347)

DIALOG(R)File 347:JAPIO

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05879145 \*\*Image available\*\*

ARTICLE SALE DATA REGISTRATION PROCESSOR WITH DATA REWRITING FUNCTION FOR NONCONTACT COMMUNICATION TYPE STORAGE MEDIUM, AND SHOPLIFTING PREVENTION SYSTEM USING THE SAME

PUB. NO.: 10-162245 [JP 10162245 A]

PUBLISHED: June 19, 1998 (19980619)

INVENTOR(s): YONEYAMA TATSUYA

APPLICANT(s): TEC CORP [000356] (A Japanese Company or Corporation), JP  
(Japan)

APPL. NO.: 08-315891 [JP 96315891]

FILED: November 27, 1996 (19961127)

#### ABSTRACT

PROBLEM TO BE SOLVED: To invalidate a return of an article sold at another store and to prevent shoplifting.

SOLUTION: Each article 1 is provided with a communication tag 2. A POS terminal 4 when inputting the data of the radio tag 2 of a registered article through a radio tag reader writer 5 checks store code data and status data in the data. When a sale registration mode is selected, a sale registering process for sale data on the registered article is performed and the status data of the radio tag 2 of the registered article are rewritten into a registered state on condition that the store code is of this store and the status data is unregistered. When an article return registration mode is selected, an article return registering process for the sale data of the registered article is performed on condition that the store code is of this store and the status data is already registered. An alarm device 9 checks the status data of the radio tag 2 of an article passed through an exit 6, and judges shoplifting when the status data is unregistered, thereby generating an alarm through an alarm buzzer 10.

9/7/5 (Item 3 from file: 347)

DIALOG(R)File 347:JAPIO

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03938195 \*\*Image available\*\*

POS TERMINAL DEVICE

PUB. NO.: 04-303295 [JP 4303295 A]  
PUBLISHED: October 27, 1992 (19921027)  
INVENTOR(s): AKIYAMA KENJI  
APPLICANT(s): KOUFU NIPPON DENKI KK [000000] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 03-091124 [JP 9191124]  
FILED: March 29, 1991 (19910329)

ABSTRACT

PURPOSE: To prevent the malfunction due to the fault and intention of the third party when an operator is away from the **POS terminal** device by ringing an **alarm device** when a timer circuit starts to measure by the detecting output of an infrared ray sensor and measures the prescribed time.

CONSTITUTION: An infrared ray sensor 2 to detect the presence of humans, an **alarm device** 4 to generate an alarm and a timer circuit 3 to ring the **alarm device** 4 when the measurement is started by the detecting output of the infrared ray sensor 2 and the prescribed time is measured are provided. The infrared ray sensor 2 detects whether or not humans exist before a **POS terminal** device 1 and when the humans stand before the **POS terminal** device 1, the timer circuit 3 is started. The timer circuit 3, when an identification number is not inputted before the time measured by itself passes the prescribed time, rings the **alarm device** 4 and informs the peripheral humans of the occurrence of the abnormal condition. Thus, the carelessness of the operator and the malfunction by the third party are prevented and the effect of the crime prevention is obtained.

9/7/6 (Item 4 from file: 347)

DIALOG(R)File 347:JAPIO  
(c) 2000 JPO & JAPIO. All rts. reserv.

02927295 \*\*Image available\*\*  
POS SYSTEM

PUB. NO.: 01-224895 [JP 1224895 A]  
PUBLISHED: September 07, 1989 (19890907)  
INVENTOR(s): FUJITA SHIGERU  
APPLICANT(s): FUJITSU LTD [000522] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 63-051276 [JP 8851276]  
FILED: March 04, 1988 (19880304)

ABSTRACT

PURPOSE: To facilitate the coping with data by providing a means to inform that the data by a storing control means are not stored into a data storing means when the storing data exceed the prescribed storing capacity.

CONSTITUTION: A storing control means 121 of a **POS terminal** 113 controls so as to store, into a data storing means 111 the data concerning the transaction in accordance with the information supplied from a main control device 115. When the storing data by the storing control means 121 exceed the prescribed storing capacity in the data storing means 111, the effect that the data by the storing control means 121 are not stored into the data storing means 111 is informed by an **alarm device** 123 of the **POS terminal** 113. Thus, the coping with the data which exceed the prescribed storing capacity at the data storing means 111 can be facilitated.

?

\*File 347:JAPIO Oct 1976-1999/Dec(UPDATED 000530)

(c) 2000 JPO & JAPIO

File 351:DERWENT WPI 1963-2000/UD=, UM=, & UP=200026

(c) 2000 Derwent Info Ltd

File 348:European Patents 1978-2000/May W04

(c) 2000 European Patent Office

File 349:PCT Fulltext 1983-2000/UB=, UT=20000511

(c) 2000 WIPO/MicroPatent

Set	Items	Description
S1	3	E4-E5

1/7/1 (Item 1 from file: 351)  
DIALOG(R)File 351:DERWENT WPI  
(c) 2000 Derwent Info Ltd. All rts. reserv.

012794412 \*\*Image available\*\*  
WPI Acc No: 99-600641/199951

**Item shuffling monitoring method for self service checkout terminals in retail grocery shops, supermarkets**

Patent Assignee: NCR INT INC (NATC ); NCR CORP (NATC )  
Inventor: LUTZ D L; MALCHAK C A; MASON T E; MASSIGH A M; VASSIGH A M  
Number of Countries: 026 Number of Patents: 002  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
US 5967264	A	19991019	US 9871024	A	19980501	A47F-009/04	199951 B
EP 953948	A2	19991103	EP 99303392	A	19990429	G07G-001/00	199951

Priority Applications (No Type Date): US 9871024 A 19980501

**Patent Details:**

Patent	Kind	Lan	Pg	Filing Notes	Application	Patent
US 5967264	A		28			
EP 953948	A2	E				

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT  
LI LT LU LV MC MK NL PT RO SE SI

Abstract (Basic): US 5967264 A

NOVELTY - When the removal of several items from a post- scan shelf is detected, the weight of the items is computed as a weight decrease value. When the placement of the items into a grocery bag is detected, the weight of the items is computed as weight increase value. A match control signal is generated when the weight decrease value matches with the weight increase value.

USE - For self service checkout terminals in retail grocery shops, supermarkets.

ADVANTAGE - The instances of improprieties such as theft are prevented effectively by detecting the placement of unsecured item into a grocery bag or post-scan shelf immediately.

DESCRIPTION OF DRAWING(S) - The figure shows a perspective view of self service checkout terminal.

pp; 28 DwgNo 1/6

Derwent Class: P27; S02; T01; T04; T05; W01; W05

International Patent Class (Main): A47F-009/04; G07G-001/00

International Patent Class (Additional): G01G-019/415

1/7/2 (Item 2 from file: 351)  
DIALOG(R)File 351:DERWENT WPI  
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009628925

WPI Acc No: 93-322474/199341

**Appts. for processing payment of items of merchandise - has touch-sensitive display panel linked to cash till, and shows receipt display with amount due and also denominations of change required**

Patent Assignee: NCR INT INC (NATC ); AT & T GLOBAL INFORMATION SOLUTIONS  
INT INC (AMTT ); NCR CORP (NATC )

Inventor: BUCHANAN-MILLER H; HASTINGS M A; INDERRIEDEN M T; RUBINI D M;  
VASSIGH A M

Number of Countries: 004 Number of Patents: 005

**Patent Family:**

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
EP 565253	A2	19931013	EP 93302089	A	19930318	G07G-001/12	199341 B
US 5297030	A	19940322	US 92866650	A	19920408	G06F-015/21	199411
EP 565253	A3	19960724	EP 93302089	A	19930318	G07G-001/12	199639
EP 565253	B1	19980603	EP 93302089	A	19930318	G07G-001/12	199826
DE 69318883	E	19980709	DE 618883	A	19930318	G07G-001/12	199833
			EP 93302089	A	19930318		

Priority Applications (No Type Date): US 92866650 A 19920408

^Cited Patents: No-SR.Pub; 1.Jnl.Ref; DE 3813626; EP 328831; EP 476972; JP 58123154; US 4189774; US 4191999; US 4441160; US 4611286; US 5235509

Patent Details:

Patent	Kind	Lan	Pg	Filing	Notes	Application	Patent
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EP 565253	A2	E	20				
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Designated States (Regional): DE FR GB

US 5297030	A		20				
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EP 565253	B1	E					
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Designated States (Regional): DE FR GB

DE 69318883 E				Based on			
---------------	--	--	--	----------	--	--	--

EP 565253

Abstract (Basic): EP 565253 A

The appts. includes the touch-sensitive screen for displaying the amount due for the purchase of at least one item. The display shows a number of payment amounts that may be tendered by a customer and the system calculates the change required in response to the selection of the corresponding displayed amount.

The display includes receipt information listing one or more items purchased. Superimposed on the receipt data are touch-sensitive symbols which allow at least one item in the receipt display to be moved. The display also includes a representation of the cash till and denominations of change available.

ADVANTAGE - Appts. processes payment for merchandised items, whilst reducing probability of errors occurring and reducing number of keystrokes needed for operator.

Dwg.2/22

Abstract (Equivalent): US 5297030 A

The merchandise checkout system includes an electronic cash register having a touch screen panel and a cash till including a number of compartments for storing a particular bill or coin denomination. Purchased merchandise items are checked out by displaying on the touch screen panel a receipt listing the items purchased together with the amount due.

A number of bill denominations are displayed which may be submitted by the customer for the purchase of the merchandise items. A representation of the cash till together with the particular bill and coin denominations and the number of such denominations which are to be dispensed as the change due the customer, are displayed on the panel in response to the submission of the particular bill denomination by the customer.

ADVANTAGE - Reduces number of keystrokes required by operator in processing payment of items purchased by customer.

Dwg.9/22

Derwent Class: T01; T04; T05

International Patent Class (Main): G06F-015/21; G07G-001/12

International Patent Class (Additional): G06F-003/033; G07G-001/01

1/5/3 (Item 1 from file: 348)

DIALOG(R)File 348:European Patents

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00572102

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**Apparatus and method for processing payment for a merchandise item**

**Einrichtung und Verfahren zur Verarbeitung der Bezahlung von Warenartikeln**

**Dispositif et methode pour le traitement du paiement de marchandises**

PATENT ASSIGNEE:

NCR International, Inc., (1449484), 1700 South Patterson Boulevard,

Dayton, Ohio 45479, (US), (applicant designated states: DE;FR;GB)

INVENTOR:

Vassigh, Ali M. , 301 Wesley Plantation Drive, Duluth. GA 30136, (US)

Hastings, Mark A., 1335 Yorktown Drive, Lawrenceville, GA 30243, (US)

Inderrieden, Michael T., 6444 Wedgeview Drive, Tucker, GA 30084, (US)

Buchanan-Miller, Helen, 2272 Tapanzee Lane, Lawrenceville, GA 30244, (US)

Rubini, David M., 2006 Crestland Drive, Smyrna, GA 30080, (US)

LEGAL REPRESENTATIVE:

Irish, Vivien Elizabeth (32204), International IP Department, NCR

Limited, 206 Marylebone Road, London NW1 6LY, (GB)

\*PATENT (CC, No, Kind, Date): EP 565253 A2 931013 (Basic)  
EP 565253 A3 960724  
EP 565253 B1 980603  
APPLICATION (CC, No, Date): EP 93302089 930318;  
PRIORITY (CC, No, Date): US 866650 920408  
DESIGNATED STATES: DE; FR; GB  
INTERNATIONAL PATENT CLASS: G07G-001/12; G07G-001/01; G06F-003/033;

ABSTRACT EP 565253 A3

The invention provides for a merchandise checkout apparatus such as electronic cash register (20) having a touch screen panel (22) and a cash till (26) including a plurality of compartments for storing respective bill and coin denominations, wherein the touch sensitive display screen (22) is arranged to display a receipt (40) listing the merchandise items purchased together with the amount due, a plurality (66,68) of bill denominations which may be submitted by a customer for the purchase of said merchandise items and a representation of said cash till (26) together with the particular bill and coin denominations in the respective compartments of said cash till (26) and the number of such denominations which are to be dispensed as the change to said customer. A method of processing payment with such apparatus is also disclosed. (see image in original document)

ABSTRACT WORD COUNT: 162

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 931013 A2 Published application (Alwith Search Report  
;A2without Search Report)  
\*Assignee: 941019 A2 Applicant (transfer of rights) (change): AT&T  
GLOBAL INFORMATION SOLUTIONS INTERNATIONAL INC.  
(1449481) 1700 South Patterson Boulevard  
Dayton, Ohio 45479 (US) (applicant designated  
states: DE;FR;GB)  
\*Assignee: 960605 A2 Applicant (transfer of rights) (change): NCR  
International, Inc. (1449484) 1700 South  
Patterson Boulevard Dayton, Ohio 45479 (US)  
(applicant designated states: DE;FR;GB)  
\*Assignee: 960605 A2 Previous applicant in case of transfer of  
rights (change): AT&T GLOBAL INFORMATION  
SOLUTIONS INTERNATIONAL INC. (1449481) 1700  
South Patterson Boulevard Dayton, Ohio 45479  
(US) (applicant designated states: DE;FR;GB)  
Change: 960612 A2 Representative (change)  
Change: 960710 A2 Obligatory supplementary classification  
(change)  
Search Report: 960724 A3 Separate publication of the European or  
International search report  
Examination: 970326 A2 Date of filing of request for examination:  
970124  
Examination: 970604 A2 Date of despatch of first examination report:  
970422  
Grant: 980603 B1 Granted patent  
Oppn None: 990526 B1 No opposition filed

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9823	497
CLAIMS B	(German)	9823	479
CLAIMS B	(French)	9823	532
SPEC B	(English)	9823	5157
Total word count - document A			0
Total word count - document B			6665
Total word count - documents A + B			6665

File 348:European Patents 1978-2000/May W04  
 (c) 2000 European Patent Office  
 File 349:PCT Fulltext 1983-2000/UB=, UT=20000511  
 (c) 2000 WIPO/MicroPatent

Set	Items	Description
S1	1114	(SELF()SERVICE? OR POS OR CHECKOUT OR CHECK()OUT? ) (N4) (-REGISTER? OR TERMINAL? OR LANE? OR STATION?)
S2	8612	(TRIGGER? OR ALARM? OR ALERT?) (N2) (POINT? OR MECHANISM? -OR DEVICE?)
S3	567506	COST? OR PRICE? OR VALUE? OR FEE? ?
S4	1422	(STOP? OR DETECT? OR CHECK? OR DETER? ? OR PREVENT?) (N4) -(THEFT? )
S5	25926	SECURITY
S6	37	S1 AND S2 AND S3
S7	12	S6 (S) (S4 OR S5)
S8	1	S1(S)S2(S)S3
S9	25	S6 NOT TRIGGERING
S10	24	S1(S)TRIGGER?
S11	9	S10 (S) (COST? OR VALUE? OR FEE? OR PRICE?)
?		

41/3,K/1 (Item 1 from file: 348)  
DIALOG(R)File 348:European Patents  
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00970304

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\* **An apparatus for authenticating sheets**

Vorrichtung zum Authentisieren von Scheinen

Appareil pour l'authentification des feuilles

PATENT ASSIGNEE:

NCR INTERNATIONAL INC., (1449480), 1700 South Patterson Boulevard,  
Dayton, Ohio 45479, (US), (applicant designated states: DE;ES;FR;GB;IT)

INVENTOR:

Ross, Gary A., 60 Main Street, Colinsburgh, Fife, Scotland, (GB)  
Heelan, Philip J., 2nd Floor Flat, 93 Nethergate, Dundee DD1 4DH,  
Scotland, (GB)

LEGAL REPRESENTATIVE:

Cleary, Fidelma et al (85871), International IP Department NCR Limited  
206 Marylebone Road, London NW1 6LY, (GB)

PATENT (CC, No, Kind, Date): EP 880113 A1 981125 (Basic)

APPLICATION (CC, No, Date): EP 98303732 980513;

PRIORITY (CC, No, Date): GB 9710717 970524

DESIGNATED STATES: DE; ES; FR; GB; IT

INTERNATIONAL PATENT CLASS: G07D-007/00

ABSTRACT WORD COUNT: 148

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9848	275
SPEC A	(English)	9848	1275
Total word count - document A			1550
Total word count - document B			0
Total word count - documents A + B			1550

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...ABSTRACT A1

A **self -service** deposit **terminal** (10) is arranged to authenticate bank notes by exposing them to ultra-violet (UV) light...

...photo-diode (52). The amplified output of this second photo-diode acts as a threshold **value** . The amplified outputs of both photodiodes are applied to a Schmitt **trigger** (60) which outputs a high signal if the tested note is judged to fluoresce and a low signal if it does not. The output of the Schmitt **trigger** (60) is applied to a data processing means (24) which determines either solely on this...

11/3,K/2 (Item 2 from file: 348)  
DIALOG(R)File 348:European Patents  
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00513444

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\* **Method and apparatus for generating cumulative discount certificates**

Verfahren und Vorrichtung zur Erzeugung von kumulativen Rabattzertifikaten

Methode et appareil pour la generation de certificats de rabais cummulatifs

PATENT ASSIGNEE:

CATALINA MARKETING INTERNATIONAL, INC., (1500140), 721 East Ball Road, No  
200, Anaheim, California 92805, (US), (Proprietor designated states:  
all)

INVENTOR:

Greer, Tommy D., 1039 Granville Drive, Newport Beach, California 92660,  
(US)

Cherney, Timothy L., 1373 Armstead Lane, Fullerton, California 92633,  
(US)

Off, George W., 16 Hidden Hills Court, Greenville, South Carolina 29605,

1 (US)

LEGAL REPRESENTATIVE:

Molyneaux, Martyn William et al (34011), Langner Parry 52-54 High Holborn  
, London WC1V 6RR, (GB)

PATENT (CC, No, Kind, Date): EP 511463 A2 921104 (Basic)  
EP 511463 A3 921202  
EP 511463 B1 990811

APPLICATION (CC, No, Date): EP 92102006 920206;

PRIORITY (CC, No, Date): US 652324 910206

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IT; LI; LU; MC; NL;  
PT; SE

INTERNATIONAL PATENT CLASS: G07G-005/00; G07F-009/02

ABSTRACT WORD COUNT: 105

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9932	681
CLAIMS B	(German)	9932	671
CLAIMS B	(French)	9932	804
SPEC B	(English)	9932	3732
Total word count - document A			0
Total word count - document B			5888
Total word count - documents A + B			5888

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...SPECIFICATION certificate to a customer order.

In terms of apparatus, the system comprises a plurality of **terminals** at customer **checkout** locations, each having means for reading product codes on purchased items in a customer order access to an item record file contain; ing **price** and other information for each product item; means for storing the terms of multiple product discounts that are subject to accumulation on a single discount certificate; means for identifying **triggering** products in the customer order; and means for automatically generating a printable discount certificate, containing accumulated discounts relating to all of the **triggering** products identified during processing of a customer order. The apparatus also includes means for printing...

11/3,K/3 (Item 3 from file: 348)

DIALOG(R)File 348:European Patents

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00333335

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**SHOPPING CART DISPLAY SYSTEM**

**ANZEIGESYSTEM FUR EINKAUFSWAGEN**

**SYSTEME D'AFFICHAGE SUR ECRAN POUR CHARIOT A PROVISIONS**

PATENT ASSIGNEE:

KLEVER-KART, INC, (1424471), 350 West 300 South Suite 201, Salt Lake  
City, UT 84101, (US), (applicant designated states:  
AT;BE;CH;DE;FR;GB;IT;LI;LU;NL;SE)

INVENTOR:

MALEC, John, 600 West Stratfond, Chicago, IL 60657, (US)  
MOSER, Joseph, Paul, 74 West Hesterman Drive, Glendale Heights, IL 60139,  
(US)

LEGAL REPRESENTATIVE:

Cross, Rupert Edward Blount et al (42891), BOULT, WADE & TENNANT 27  
Furnival Street, London EC4A 1PQ, (GB)

PATENT (CC, No, Kind, Date): EP 335931 A1 891011 (Basic)  
EP 335931 A1 901205  
EP 335931 B1 960403  
WO 8902628 890323

APPLICATION (CC, No, Date): EP 88908639 880921; WO 88US3259 880921

PRIORITY (CC, No, Date): US 99288 870921  
DESIGNATED STATES: AT; BE; CH; DE; FR; GB; IT; LI; LU; NL; SE  
INTERNATIONAL PATENT CLASS: G06F-007/04; G06F-017/30; G06F-017/60;  
G06F-019/00;  
ABSTRACT WORD COUNT: 136  
NOTE:  
No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	1057
CLAIMS B	(English)	EPAB96	869
CLAIMS B	(German)	EPAB96	818
CLAIMS B	(French)	EPAB96	983
SPEC A	(English)	EPABF1	19666
SPEC B	(English)	EPAB96	19769
Total word count - document A			20725
Total word count - document B			22439
Total word count - documents A + B			43164

ORDER fax of complete patent from Dialog SourceOne. See HELP ORDER 348

...SPECIFICATION 2603 are two characters (sixteen bits) long. The  
Transceiver Address character 2305 identifies the respective **check -out  
station** 515. The CRC characters provide a check on the accuracy of  
signal transmission so that...

...SPECIFICATION 2603 are two characters (sixteen bits) long. The  
Transceiver Address character 2305 identifies the respective **check -  
out station** 515. The CRC characters provide a check on the accuracy  
of signal transmission so that...

11/3,K/4 (Item 4 from file: 348)  
DIALOG(R)File 348:European Patents  
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00163895

ORDER fax of complete patent from Dialog SourceOne. See HELP ORDER 348

**Sales data processing system.**

**Verkaufsdatenverarbeitungssystem.**

**Systeme de traitement de donnees de vente.**

PATENT ASSIGNEE:

TOKYO ELECTRIC CO., LTD., (283351), 6-13, 2-chome, Nakameguro, Meguro-ku  
Tokyo, (JP), (applicant designated states: DE;FR;GB)

INVENTOR:

Hamano, Koichi, 838-47, Makinogo Shuzenji-cho, Tagata-gun Shizuoka-ken,  
(JP)

Yamato, Hajime, 618-1, Kona Izunagaoka-cho, Tagata-gun Shizuoka-ken, (JP)  
Karasawa, Hideo, 501-2, Yata Mishima-shi, Shizuoka-ken, (JP)

LEGAL REPRESENTATIVE:

Schmidt-Evers, Jurgen, Dipl.-Ing. et al (10431), Patentanwalte  
Mitscherlich & Partner, Sonnenstrasse 33, Postfach 33 06 09, D-80066  
Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 168627 A2 860122 (Basic)  
EP 168627 A3 871111  
EP 168627 B1 931215

APPLICATION (CC, No, Date): EP 85107146 850611;

PRIORITY (CC, No, Date): JP 84119792 840613; JP 84119793 840613; JP  
84119794 840613

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G07G-001/06; G01G-019/413; G01G-023/42;

ABSTRACT WORD COUNT: 195

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
----------------	----------	--------	------------

CLAIMS B	(English)	EPBBF1	740
CLAIMS B	(German)	EPBBF1	548
CLAIMS B	(French)	EPBBF1	894
SPEC B	(English)	EPBBF1	3009
Total word count - document A			0
Total word count - document B			5191
Total word count - documents A + B			5191

ORDER fax of complete patent from Dialog SourceOne. See HELP ORDER 348

...SPECIFICATION equipment for a self-service shop which substantially comprises two sub-systems, namely trollies and **check -out stations** . The customer, who pushes the trolley through the self-service shop takes the articles which...

...to be wrong or the measured weight does not correspond to the read-in weight **value** , an alarm signal is **triggered** . At the **check -out station** , the stored article data are transmitted to a computer which calculates the total sum of...

11/3,K/5 (Item 1 from file: 349)  
 DIALOG(R)File 349:PCT Fulltext  
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00637890

**SYSTEM AND APPARATUS FOR DISPENSING COUPONS HAVING SELECTIVELY PRINTED BORDERS AROUND PREFERRED PRODUCTS**  
**SYSTEME ET DISPOSITIF DE DISTRIBUTION DE BONS DE REDUCTION PRESENTANT DES BORDURES IMPRIMEES DE MANIERE SELECTIVE AUTOUR DE PRODUITS PREFERES**

Patent Applicant/Assignee:

CATALINA MARKETING INTERNATIONAL INC; Address - CATALINA MARKETING INTERNATIONAL, INC., 11300 9th Street North, St. Petersburg, FL 33716, US

Inventor(s):

WILLIAMS Eric; Address - WILLIAMS, Eric, 4300 Azeele Street, Tampa, FL 33609, US

Patent and Priority Information (Country, Number, Date):

Patent: WO 9921071 A2 19990429

Application: WO 98US17333 19980826 (PCT/WO US9817333)

Priority Application: US 97953646 19971017

Designated States: AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; CA; CH; CN; CU; CZ; DE; DK; EE; ES; FI; GB; GE; GH; GM; HR; HU; ID; IL; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MD; MG; MK; MN; MW; MX; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT; UA; UG; UZ; VN; YU; ZW; GH; GM; KE; LS; MW; SD; SZ; UG; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG

Publication Language: English

Filing Language: English

Fulltext Word Count: 11240

Fulltext Availability:

Detailed Description

Claims

Detailed Discription

... the negative coupon printing feature. the system of the invention includes (1) a plurality of **terminals** at customer **check -out** locations, each having means for reading product codes on purchased items in a customer order...

...the terminals can communicate. the store controller having access to an item record file containing **price** and other information for each product item, (3) means for storing the terms of at...

...deal in which the printing of a discount coupon for a selected product will be **triggered** by the failure of a customer to purchase at least one

. **triggering** product, (4) means for identifying **triggering** products in the customer order, (5) means for associating **triggering** products with a coupon deal, and (6) means for automatically printing at least one discount...

Claim

... non-purchase of at least one preselected item, the system comprising:

(a) at least one **terminal** at a customer **checkout** location, said at least one terminal having means for reading product codes on purchased items...

...one terminal can communicate, said store controller having access to an item record file containing **price** and other information for each product item, (c) means for storing the terms of at...

...deal in which the printing of a discount coupon for a selected product will be **triggered** by the purchase or non purchase of at least one **triggering** product; (d) means for identifying the at least one **triggering** product in the customer's...

...For use in a retail store point-of-sale system having (a) at least one **terminal** at a customer **checkout** location with means for reading product codes on purchased items in a customer order and...

...the terminal can communicate, the store controller having access to an item record file containing **price** and other information for each product item, a method for printing a redeemable coupon in response to the purchase of at least one **triggering** item or the non-purchase of at least one **triggering** item, the method comprising the steps of (c) preselecting a discountable product for which at least one coupon deal relating to the discount coupon to be printed; (f) identifying the **triggering** product in the customer order-, (g) associating the **triggering** product with the previously stored terms of the coupon deal; and (h) automatically printing at...

...or participation of the customer other than in purchasing or in failing to purchase the **triggering** product.

8. A method as defined by claim 7, wherein the step of automatically printing...

...s action concerning the purchase of an item, the system comprising:

(a) at least one **terminal** at a customer **checkout** location, said at least one terminal having means for reading product codes on purchased items...

...one terminal can communicate, said store controller having access to an item record file containing **price** and other information for each product item; (c) means for storing the terms of at...

...purchase of a triggering product supplied by a different supplier; (d) means for identifying the **triggering** product in the customer order; (e) means for associating the triggering product with the coupon...

...generating at least one discount coupon having a border for a product other than the **triggering** product. based on the details of the coupon deal and without the intervention or participation of the customer other than his or her action concerning the purchase of the **triggering** product.

13. A system as defined in claim 12 wherein the border of the at...a plurality of preselected items or nonselected items, the system comprising:

(a) at least one **terminal** at a customer **checkout** location, said at least one terminal having means for reading product codes on purchased ...

...one terminal can communicate, said store controller having access to an item record file containing **price** and other information for each product item; (c) means for stoning the terms of at...

...a selected nroduct will be triL, ered by the purchase -g of at least one **triggered** product; (d) means for identifying the at least one **triggering** product in the customer's order; (e) means for associating the at least one **triggering** product with the coupon deal:

and

means for automatically generating at least one discount coupon...

...20. For use in a retail store point-of-sale system having a plurality of **terminals** at customer **checkout** locations, each with means for reading product codes on purchased items in a customer order...

...the terininals can communicate, the store controller having access to an item record file containing **price** and other information for each product item, a method for generating a discount coupon in...

...product for which a discount coupon is to be generated; (b) preselecting at least one **triggering** product the purchase of which is intended to initiate generation of the discount coupon; (c the discount coupon to be generated; (d) identifying: the at least one **triggering** product in the customer's order; (e) associating the at least one **triggering** product with the previously stored terms of the coupon deal; and (f) automatically generating at...

...intervention or p~rticipation of the customer other than in purchasing the at least one **triggering** product.

2 1. A method as defined by claim 20 wherein the step of automatically...

11/3,K/6 (Item 2 from file: 349)  
DIALOG(R)File 349:PCT Fulltext  
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00628938

\*METHOD AND APPARATUS FOR GENERATING PURCHASE INCENTIVES BASED ON PRICE DIFFERENTIALS

METHODE ET DISPOSITIF PERMETTANT D'ETABLIR DES PROMOTIONS D'ACHAT EN FONCTION DE CISEAUX DE PRIX

Patent Applicant/Assignee:

CATALINA MARKETING INTERNATIONAL INC; Address - CATALINA MARKETING INTERNATIONAL, INC. , 11300 9th Street North, St. Petersburg, FL 33716 , US

Inventor(s):

GIULIANI John A; Address - GIULIANI, John, A. , 350 Ravine Park Drive East, Lake Forest, IL 60045 , US

VANDEVELDE Scott R; Address - VANDEVELDE, Scott, R. , Unit E, 1701 North Dayton, Chicago, IL 60614 , US

AL-ATRAQCHI Waleed M; Address - AL-ATRAQCHI, Waleed, M. , 100 Florence Drive, Tonka Bay, MN 55331 , US

Patent and Priority Information (Country, Number, Date):

Patent: WO 9912117 A1 19990311

Application: WO 98US17340 19980828 (PCT/WO US9817340)

Priority Application: US 97924029 19970829

Designated States: AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; CA; CH; CN; CU; CZ; DE; DK; EE; ES; FI; GB; GE; GH; GM; HR; HU; ID; IL; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MD; MG; MK; MN; MW; MX; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT; UA; UG; UZ; VN; YU; ZW; GH; GM; KE; LS; MW; SD; SZ; UG; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG

Publication Language: English

Filing Language: English

Fulltext Word Count: 6099

Fulltext Availability:  
Detailed Description  
Claims

#### Detailed Discription

... incentive generation apparatus, for use with a sales transaction recording system having at least one **checkout terminal** and a store controller with access to an item **price** file. The apparatus of the invention comprises storage means for holding data defining separate sets ...

...least one item of which sales are to be promoted; means for identifying a purchased **triggering** item presented at a **checkout terminal**; means for identifying an additional item associated with the purchased **triggering** item in an incentive deal, wherein one of the two items is a promoted item and the other is a competitive item; means for obtaining sales **prices** for the promoted item and the competitive item; and means for selecting a set of incentive terms from the storage means, based on whether the purchased **triggering** item is the promoted item or the competitive item, and further based on the **prices** of the promoted item and the competitive item. Thus the incentive terms are tailored to a consumer's purchasing behavior and the **price** of the promoted item relative to the competitive item. Finally, the apparatus comprises means for least one **checkout terminal** and a store controller with access to an item **price** file. The method comprises the steps of storing in a storage means data defining multiple...

...to at least one item of which sales are to be promoted; identifying a purchased **triggering** item presented at a **checkout terminal**; identifying an additional item associated with the purchased **triggering** item in an incentive deal, wherein one of the two items is a promoted item and the other is a competitive item; obtaining sales **prices** for the promoted item and the competitive item; and selecting a set of incentive terms from the storage means, based on whether the purchased **triggering** item is the promoted item or the competitive item, and further based on the **prices** of the promoted item and the competitive item. Thus, the incentive is tailored to a consumer's purchasing behavior and to the **price** of the promoted item relative to the competitive item. The method also includes the step...

#### Claim

... checkout 7 terminal; 8 means for identifying an additional item associated with the purchased 9 **triggering** item in an incentive deal, wherein one of the two items is a promoted item and the other is a competitive item; 11 means for obtaining sales **prices** for the promoted item and the competitive 12 item; 13 means for selecting a set of incentive terms from the storage means, based 14 on whether the purchased **triggering** item is the promoted item or the competitive item, and further based on the **prices** of the promoted item and the competitive item, wherein 16 the incentive terms are tailored to a consumer's purchasing behavior and the **price** of the 17 promoted item relative to the competitive item; and 18 means for generating...item presented at a checkout terminal; 7 identifying an additional item associated with the purchased **triggering** item 8 in an incentive deal, wherein one of the two items is a promoted item and the other is 9 a competitive item; obtaining sales **prices** for the promoted item and the competitive item; 11 selecting a set of incentive terms from the storage means, based on 12 whether the purchased **triggering** item is the promoted item or the competitive item, and 13 further based on the **prices** of the promoted item and the competitive item, wherein the 14 incentive is tailored to a consumer's purchasing behavior and to the **price** of the promoted item relative to the competitive item; and 16 generating an incentive for...

00579715

**UNIVERSAL MERCHANDISE TAG**

**ETIQUETTE UNIVERSELLE POUR MARCHANDISES**

Patent Applicant/Assignee:

DUMONT Charles J; Address - DUMONT, Charles, J. , 8925 Collins Avenue,  
PH-E, Surfside, FL 33154 , US

Inventor(s):

DUMONT Charles J; Address - DUMONT, Charles, J. , 8925 Collins Avenue,  
PH-E, Surfside, FL 33154 , US

Patent and Priority Information (Country, Number, Date):

Patent: WO 9824075 A1 19980604

Application: WO 96US19070 19961127 (PCT/WO US9619070)

Priority Application: WO 96US19070 19961127

Designated States: AL; AU; BB; BG; BR; CA; CN; CZ; EE; GE; HU; IL; IS; JP;  
KP; KR; LK; LR; LT; LV; MG; MK; MN; MW; MX; NO; NZ; PL; RO; SG; SI; SK;  
TR; TT; UA; UZ; VN; KE; LS; MW; SD; SZ; UG; AM; AZ; BY; KG; KZ; MD; RU;  
TJ; TM; AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT;  
SE; BF; BJ; CF; CG; CI; CM; GA; GN; ML; MR; NE; SN; TD; TG

Publication Language: English

Filing Language: English

Fulltext Word Count: 5737

Fulltext Availability:

Detailed Description

Detailed Discription

... passed through a conventional store exit sensor without first being  
processed for purchase at a **check -out station** 50. Information  
display scanning device 80 reads the **price** and any other item 12 data  
stored in the given information display means 16. A...

11/3,K/8 (Item 4 from file: 349)

DIALOG(R)File 349:PCT Fulltext

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00304091

**METHOD AND APPARATUS FOR GENERATING CUMULATIVE DISCOUNT CERTIFICATES**

**PROCEDE ET APPAREIL SERVANT A PRODUIRE DES CERTIFICATS DE REMISES CUMULEES**

Patent Applicant/Assignee:

CATALINA MARKETING INTERNATIONAL

Inventor(s):

GREER Tommy D

CHERNEY Timothy L

OFF George W

Patent and Priority Information (Country, Number, Date):

Patent: WO 9214213 A1 19920820

Application: WO 92US1006 19920206 (PCT/WO US9201006)

Priority Application: US 91652324 19910206

Designated States: AU; BB; BG; BR; CS; FI; HU; JP; KP; KR; LK; MG; MW; NO;  
PL; RO; RU; SD

Publication Language: English

Fulltext Word Count: 4730

Fulltext Availability:

Detailed Description

Claims

Detailed Discription

... to a cus tomer order.

In terms of apparatus, the invention comprises a plurality of **terminals**  
at customer **checkout** loca tions, each having means for reading product  
codes on purchased items in a customer...

...terminals can communicate, the store controller having access to an item  
record file contain ing **price** and other information for each product  
item; means for storing the terms of multiple product dis counts that are

.subject to accumulation on a single discount certificate; means for identifying **triggering** products in the customer order; and means for ...cally generating a printable discount certificate, containing accumulated discounts relating to all of the **triggering** products identified during processing of a customer order. The apparatus also includes means for printing...

#### Claim

... s decision to purchase one or more preselected items, the system comprising:

a plurality of **terminals** at customer **checkout** locations, each having means for reading product codes on purchased items in a customer order...

...the terminals can communicate, the store controller having access to an item record file containing **price** and other information for each product item; means for storing the terms of multiple...

...discounts that are subject to accumulation on a single discount certificate; means for identifying **triggering** products in the customer order; and means for automatically generating a printable discount certificate containing accumulated discounts relating to all of the **triggering** products identified during processing of the customer order.

2. A system as defined in claim...

11/3,K/9 (Item 5 from file: 349)  
DIALOG(R)File 349:PCT Fulltext  
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00242991

#### INTERACTIVE PUMP SYSTEM

#### SYSTEME A INTERACTION POUR POMPE A CARBURANT

Patent Applicant/Assignee:

HOLLIDGE Peter William

Inventor(s):

HOLLIDGE Peter William

Patent and Priority Information (Country, Number, Date):

Patent: WO 8900974 A1 19890209

Application: WO 88GB651 19880805 (PCT/WO GB8800651)

Priority Application: CA 543862 19870806

Designated States: AT; AU; BB; BE; BG; BJ; BR; CF; CG; CH; CM; DE; DE; DK; FI; FR; GA; GB; HU; IT; JP; LK; LU; MC; MG; ML; MR; MW; NL; NO; RO; SD; SE; SN; SU; TD; TG; US

Publication Language: English

Fulltext Word Count: 81215

Fulltext Availability:

Detailed Description

Detailed Description

... the systems in the station, is situated in a kiosk, not shown, - central to the **station**.

qT lRqTITI IT;= C;HT=r-7

Reference will now be made to figures 1...grade)

CO1 OA24 < draw-pump-number>

CO1 OA52 < draw-cash-in) CO I OACE < draw-j-prices >

.01 051, ?drWW,P-L=

COI OBBS < draw credit.-- COI OCC6 < draw-cancel> COI OD2A...

...COI WOB < ,display,cash,in:: CC! 023 1 diEwIay,pump,p"mbeK'-. COI 1F3D < ,display,prices :\*- COI 1F63 < ,display,grade::, COI IF93 < ,display,preset:.', ...OB84 < aWb> D03 OB90 < a2l a:::- D03 OB9C < a2lb:.-. D03 OBAS < cash,bits:: D03 OBB4 < price ,bits) D03 ODCO <

.recbipt-bits) D03 OBCC < unleaded-bits> D03 OBDS < regular-bits:-, D03 OBE4...

...0 37 0 CE-- C accrset

```
D 0 3 OCFS < cash-in-+ont>
D03 OCFE < price -+ont>
D03 OD04 < acc-+ont>
D03 ODOA < bmaps>
DO:S ODDF < -F r e e...di, +r) == 0 innnimp float trap. W! load,pixels
(di,fr); link-frgme (fr),-, r -)-value21 = 0; +close NO; t+printl
(stderr, "uVe %ld rem %ld/n", ram ram,remaining ram...t-)-PanYOrig = 0,-,
t-> PageUpper Ow .... /* set the bank flags to illegal* t-> PageLower Ox
; /* values so that they will be set 14 the 4irst time t-> ovrscnAvail
0; /* Assume no...DEF--.DR 3, DEF.- DRII 4l SetFi--, 'IedReg.-LstersO Set
the registers which have required values static SetFixedRegisters-O i n
t r e g +or ( reg=C); reg.."FI'AED...
```

8/3,K/1 (Item 1 from file: 349)  
DIALOG(R)File 349:PCT Fulltext  
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00321078

SYSTEM FOR DIVIDING PROCESSING TASKS INTO SIGNAL PROCESSOR AND  
DECISION-MAKING MICROPROCESSOR INTERFACING  
SYSTEME DE SEPARATION DES TACHES DE TRAITEMENT EN TACHES POUR INTERFACAGE  
AVEC UN PROCESSEUR DE SIGNAUX ET UN MICROPROCESSEUR DE PRISE DE  
DECISION

Patent Applicant/Assignee:

STAR SEMICONDUCTOR CORPORATION

Inventor(s):

ROBINSON Jeffrey I

ROUSE Keith

KRASSOWSKI Andrew J

MONTLICK Terry F

Patent and Priority Information (Country, Number, Date):

Patent: WO 9308524 A1 19930429

Application: WO 92US8954 19921014 (PCT/WO US9208954)

Priority Application: US 91776161 19911015

Designated States: AU; CA; JP; KR; AT; BE; CH; DE; DK; ES; FR; GB; GR; IE;  
IT; LU; MC; NL; SE

Publication Language: English

Fulltext Word Count: 203416

Fulltext Availability:

Claims

Claim

... one of the twelve bit adUsses stored in the I register 426 or the J  
**register** 428 based on information from branch logic block 432. The  
address sawed in the 11...allsop  
Initial revision  
ext-in.sdl  
Function:

external input (from microprocessor)  
krguments:

out

Parameters:

zone;

**trigger** ;

rate;

klgorithm:

SPROC input (microprocessor output) visibility tag.

inline code

asmblock ext-in ( %subr=default...

7/3,K/1 (Item 1 from file: 348)  
DIALOG(R)File 348:European Patents  
(c) 2000 European Patent Office. All rts. reserv.

00644884

ORDER fax of complete patent from Dialog SourceOne. See HELP ORDER 348

\* **Retail checkout system and checkout device for use therewith.**

**Einzelhandel Auszahlssystem und Auszahlvorrichtung dafur.**

**Systeme d'enregistrement d'achats au detail et dispositif d'enregistrement pour application.**

PATENT ASSIGNEE:

AT&T GLOBAL INFORMATION SOLUTIONS INTERNATIONAL INC., (1449481), 1700  
South Patterson Boulevard, Dayton, Ohio 45479, (US), (applicant  
designated states: DE;FR;GB)

INVENTOR:

Chenoweth, Stephen Victor, 1831 Ruskin Road, Dayton, Ohio 45406, (US)  
Kuntz, Roy Edward, 737 Wittelsbach Drive, Kettering, Ohio 45429, (US)  
Etzel, Douglas Spencer, 1-2-18 Kugenuma Kaigan, Fujisawa-shi,  
Kanagawa-ken, (JP)

LEGAL REPRESENTATIVE:

Robinson, Robert George (35392), International Patent Department NCR  
Limited 915 High Road North Finchley, London N12 8QJ, (GB)

PATENT (CC, No, Kind, Date): EP 623904 A1 941109 (Basic)

APPLICATION (CC, No, Date): EP 94303177 940503;

PRIORITY (CC, No, Date): US 55998 930503

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G07G-001/00; G07F-007/02;

ABSTRACT WORD COUNT: 173

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF2	423
SPEC A	(English)	EPABF2	2275
Total word count - document A			2698
Total word count - document B			0
Total word count - documents A + B			2698

ORDER fax of complete patent from Dialog SourceOne. See HELP ORDER 348

...ABSTRACT system (10) allows a customer to gather and pay for items without going through a **checkout lane**. The system includes a wireless checkout device (11) transported by a customer, preferably on a...

...and a marking/unmarking device (20). The marking/unmarking device (20) is operative to deactivate **security** devices on the items when the items are scanned a first time by the customer and to reactivate the **security** devices when the items are scanned a second time by the customer. The system also...

...and a wireless communication network linking the checkout device (11) with the computer (26). A **security** system located at an exit and coupled to the computer (26) senses items which have not been deactivated by the marking/unmarking **device** (20) and **alerts** the computer (26) and **security** personnel. (see image in original document)

...SPECIFICATION be integrated with electronic shelf label systems or merchandise tags containing microprocessors, communications, and memory. **Security** sensor 28 senses items which have not been scanned by the scanner 18 and unmarked by the device 20 and whose **prices** have not been included in the final bill, the sensor 28 being arranged to alert the central computer 26 and **security** personnel.

Upon entering a retail location, customers gain access to a retailer-owned personal checkout...but in a designated "Exit Area" triggers an alarm.

At retail locations where average item **price** is low, there are alternatives to physically marking every item in the store for **security**

.. Only a certain percentage of items may be marked, with these marks being hidden so...  
...shown that it is not necessary for every item to be marked in order to **deter theft** from a store. Similarly, in some stores the only items marked are expensive items or...

7/3,K/2 (Item 2 from file: 348)  
DIALOG(R)File 348:European Patents  
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00516828

ORDER fax of complete patent from Dialog SourceOne. See HELP ORDER 348

**Cash register capable of switching operation mode**

**Registriertasse, geeignet zur Umschaltung der Betriebsart**

**Caisse enregistreuse pouvant commuter le mode de fonctionnement**

PATENT ASSIGNEE:

SHARP KABUSHIKI KAISHA, (260710), 22-22 Nagaike-cho, Abeno-ku, Osaka-shi,  
Osaka-fu 545, (JP), (applicant designated states: DE;GB)

INVENTOR:

Kitano, Shigeru, 5-8-5 Kitatomigaoka, Nara-shi, Nara-ken, (JP)

LEGAL REPRESENTATIVE:

Muller, Frithjof E., Dipl.-Ing. (8661), Patentanwalte MULLER & HOFFMANN,  
Innere Wiener Strasse 17, 81667 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 507241 A2 921007 (Basic)

EP 507241 A3 951025

EP 507241 B1 980805

APPLICATION (CC, No, Date): EP 92105485 920330;

PRIORITY (CC, No, Date): JP 9173238 910405

DESIGNATED STATES: DE; GB

INTERNATIONAL PATENT CLASS: G07G-001/12; G07F-007/02;

ABSTRACT WORD COUNT: 165

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9832	498
CLAIMS B	(German)	9832	413
CLAIMS B	(French)	9832	552
SPEC B	(English)	9832	2008
Total word count - document A			0
Total word count - document B			3471
Total word count - documents A + B			3471

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...SPECIFICATION to respective operators so that the operating modes can be implemented easily and at low **costs** . Further, the cash register of the present invention should obtain a high **security** level.

The object of the present invention can be achieved by a cash register having...

7/3,K/3 (Item 1 from file: 349)  
DIALOG(R)File 349:PCT Fulltext  
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00622430

**INVENTORY SYSTEM USING ARTICLES WITH RFID TAGS**

**SYSTEME D'INVENTAIRE FAISANT APPEL A DES ARTICLES DOTES D'ETIQUETTES D'IDENTIFICATION RADIO FREQUENCE**

Patent Applicant/Assignee:

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Inventor(s):

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Station Road, Media, PA 19063 , US

Patent and Priority Information (Country, Number, Date):

Patent: WO 9905660 A1 19990204

Application: WO 98US14637 19980715 (PCT/WO US9814637)

Priority Application: US 97899438 19970724

Designated States: AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; CA; CH; CN; CU; CZ; DE; DK; EE; ES; FI; GB; GE; GH; GM; HR; HU; ID; IL; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MD; MG; MK; MN; MW; MX; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT; UA; UG; UZ; VN; YU; ZW; GH; GM; KE; LS; MW; SD; SZ; UG; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG

Publication Language: English

Filing Language: English

Fulltext Word Count: 13616

Fulltext Availability:

Detailed Description

Detailed Description

... and controlling large inventories of books, periodicals, audio visual products, and the like. To facilitate **check in/checkout** , inventorying, and **theft** control of articles in the library collection, most libraries place bar codes and/or sensitizable...


...patron returns the article to the library, the magnetic strip is resensitized. The magnetic detection **device** **triggers** an **alarm** if a patron attempts to pass through a controlled exit carrying an article with a...

7/3,K/4 (Item 2 from file: 349)

DIALOG(R)File 349:PCT Fulltext

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00579715

 UNIVERSAL MERCHANDISE TAG  
ETIQUETTE UNIVERSELLE POUR MARCHANDISES

Patent Applicant/Assignee:

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Inventor(s):

DUMONT Charles J; Address - DUMONT, Charles, J. , 8925 Collins Avenue, PH-E, Surfside, FL 33154 , US

Patent and Priority Information (Country, Number, Date):

Patent: WO 9824075 A1 19980604

Application: WO 96US19070 19961127 (PCT/WO US9619070)

Priority Application: WO 96US19070 19961127

Designated States: AL; AU; BB; BG; BR; CA; CN; CZ; EE; GE; HU; IL; IS; JP; KP; KR; LK; LR; LT; LV; MG; MK; MN; MW; MX; NO; NZ; PL; RO; SG; SI; SK; TR; TT; UA; UZ; VN; KE; LS; MW; SD; SZ; UG; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM; AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ; CF; CG; CI; CM; GA; GN; ML; MR; NE; SN; TD; TG

Publication Language: English

Filing Language: English

Fulltext Word Count: 5737

Fulltext Availability:

Detailed Description

Detailed Description

... of the Invention:

The present invention relates generally to the field of purchase item **security** devices and **price** display tags.

More specifically, the present invention relates to a purchase item security and information...May 29, 1990, discloses a magnetized ink, paint or dye used on purchase items to **prevent theft** . The ink to be

• applied on the purchase items is mixed with magnetized particles which...  
...with Hultaker is that the magnetic ink does not prevent the customer from switching item **price** tags during or prior to check-out. Another problem with Hultaker is that customer self...  
...Number 5,151,684, issued on September 29, 1992, reveals an electronic inventory label and **security** apparatus. Johnsen is provides item data storage tags which are secured to purchase items with connecting members. The tags have item data including **price** , accounting and inventory control data stored on them in machine readable form, and include item **security** means.

Cutting the connecting member prior to checkout breaks an electric circuit and sounds an...items are presented to the apparatus. A problem with Wieschemann, et al., is that item **security** against **price** tag tampering and switching is minimal.

Wolfe, Jr., et al., U.S. Patent Number 5...the chamber after tag engagement security mechanism deactivation. The apparatus preferably additionally includes an exit **alarm triggering mechanism** for **triggering** a store exit alarm having an exit alarm sensor when passed near the exit alarm...

...extending through part of a purchase item forming part of an electric circuit including an **alarm mechanism** and a power source, so that opening the circuit prior to deactivation sounds the **alarm mechanism** . The tag body preferably includes a hollow shell containing the purchase item information display mechanism...

...extending through part of a purchase item forming part of an electric circuit including an **alarm mechanism** and a power source, so that opening the circuit prior to deactivation sounds the **alarm mechanism** , and where the tag engagement **security** mechanism includes a deactivation mechanism including a control wire provided within a wire guide mechanism ...the same reference numerals.

#### First Preferred Embodiment

Referring to FIGURES 1-2, a purchase item **security** and information tag apparatus 10 for secure attachment to a purchase item 12 in a...in machine readable form. The data stored in information display means 16 includes the item **price** as well as optional item weight, volume and merchandise category data. Information display means 16...

...or more digital display panels 30 are preferably provided to display the purchase item 12 **price** , size and other individual item characteristics in a form discernable to the human eye.

#### Apparatus...

...engagement security mechanism 30 including an elongate item engaging member 32 which either sounds an **alarm mechanism** 34 powered by a battery 36 or spoils the item 12 with dye 42 if...  
...member 32 in this instance forms part of an electric circuit 40 which also includes **alarm mechanism** 34 and battery 36. opening circuit 40 such as by the customer cutting engaging member 32 to free the purchase item 12 sounds **alarm mechanism** 34 , unless tag engagement **security** mechanism 30 is first deactivated at a **check -out station** 50. This version of apparatus 10 may be re-used after engaging member 32 is...

...such as with the insertion of push rods (not shown) into passageways 58 at the **check -out station** 50.

Wires 54 and 56 form a short in circuit 40 diverting current away from... scanned and security mechanism 30 is deactivated with a scanning device 80 at an item **check -out station** 50. See FIGURES 3-7. Device 80 might include a tag receiving slot 82 in a face of a wall of **check -out station** 50. A scanning device 80 suitable for reading a bar code 22,

.magnetic strip 24...

...which is positioned adjacent slot 82. See FIGURE 4. Scanning device 80 includes a tag **security** deactivation and optional tag apparatus 10 removal means.

Portable equipment may be provided to read...

7/3,K/5 (Item 3 from file: 349)  
DIALOG(R) File 349:PCT Fulltext  
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00579153

\* CHECK-OUT AND BAGGING STATION AND METHOD  
POSTE DE CONTROLE ET DE CONDITIONNEMENT ET PROCEDE CORRESPONDANT

Patent Applicant/Assignee:

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Inventor(s):

DUMONT Charles J; Address - DUMONT, Charles, J. , 8925 Collins Avenue,  
PH-E, Surfside, FL 33154 , US

Patent and Priority Information (Country, Number, Date):

Patent: WO 9823195 A1 19980604

Application: WO 96US19089 19961127 (PCT/WO US9619089)

Priority Application: WO 96US19089 19961127

Designated States: AL; AU; BB; BG; BR; CA; CN; CZ; EE; GE; HU; IL; IS; JP;  
KP; KR; LK; LR; LT; LV; MG; MK; MN; MW; MX; NO; NZ; PL; RO; SG; SI; SK;  
TR; TT; UA; UZ; VN; KE; LS; MW; SD; SZ; UG; AM; AZ; BY; KG; KZ; MD; RU;  
TJ; TM; AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT;  
SE; BF; BJ; CF; CG; CI; CM; GA; GN; ML; MR; NE; SN; TD; TG

Publication Language: English

Filing Language: English

Fulltext Word Count: 6726

Fulltext Availability:

Detailed Description

Detailed Discription

... have recently been several check-out purchase item processing devices which are intended to provide **security** during item check-out. These devices have generally not been equipped to automatically bag or...

...items, and not equipped to reliably and conveniently secure the purchase items against theft or **price** tag switching. These devices have also generally been unduly bulky and expensive to manufacture and...May 29, 1990, discloses a magnetized ink, paint or dye used on purchase items to **prevent theft**. The ink to be applied on the purchase items is mixed with magnetized particles which...

...with Hultaker is that the magnetic ink does not prevent the customer from switching item **price** tags during or prior to check-out. Another problem with Hultaker is that customer self...

...Number 5,151,684, issued on September 29, 1992, reveals an electronic inventory label and **security** apparatus. Johnsen is provides item data storage tags which are secured to purchase items with connecting members. The tags have item data including **price**, accounting and inventory control data stored on them in machine readable form, and include item **security** means.

Unauthorized removal of a tag sounds an alarm. A problem with Johnsen is that...other than in a store shopping bag 36, since bags 36 are sealed at the **check -out station** 70. TO **prevent** this type of **theft**, the item engaging member 52 for the simpler versions of tag 40 is preferably formed...

7/3,K/6 (Item 4 from file: 349)

DIALOG(R)File 349:PCT Fulltext  
(c) 2000 WIPO/MicroPatent. All rts. reserv.

00524741

**WIRELESS MESSAGING SYSTEM  
SYSTEME DE MESSAGERIE PAR RADIO**

Patent Applicant/Assignee:

APTEL LTD  
KENAN Menachem  
BAR-OR Ofer  
GOLDSTEIN Larry  
ZIGDON Shimon

Inventor(s):

KENAN Menachem  
BAR-OR Ofer  
GOLDSTEIN Larry  
ZIGDON Shimon

Patent and Priority Information (Country, Number, Date):

Patent: WO 9725820 A1 19970717  
Application: WO 97IL13 19970108 (PCT/WO IL9700013)  
Priority Application: US 96584758 19960111

Designated States: AL; AM; AT; AU; AZ; BB; BG; BR; BY; CA; CH; CN; CU; CZ;  
DE; DK; EE; ES; FI; GB; GE; HU; IL; IS; KG; KP; KR; KZ; LK; LR; LS; LT;  
LU; LV; MD; MG; MK; MN; MW; MX; NO; NZ; PL; PT; RO; RU; SD; SE; SK; TJ;  
TM; TR; TT; UA; UG; US; UZ; VN; KE; LS; MW; SD; SZ; UG; AM; AZ; BY; KG;  
KZ; MD; RU; TJ; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL;  
PT; SE; BF; BJ; CF; CG; CI; CM; GA; GN; NE; SN; TD; TG

Publication Language: English

Fulltext Word Count: 14761

Fulltext Availability:

Detailed Description

Detailed Discription

... and tracking shipments), retail and financial markets (i.e. monitoring  
and controlling point-of-sale (POS) **terminals**, electronic cash  
**registers**, automated teller machines (ATMs), vending machines, lottery  
machines, computer and video game machines), traffic control...

...remote monitoring and control of traffic lights), utility meter reading  
(i.e. electric, gas, water), **security** systems, etc.

Recently, the Federal Communications Commission (FCC) in the United  
States allocated a portion...

7/3,K/7 (Item 5 from file: 349)

DIALOG(R)File 349:PCT Fulltext  
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00513191

**COMBINATION ARTICLE SECURITY TARGET AND PRINTED LABEL AND METHOD AND  
APPARATUS FOR MAKING AND APPLYING SAME**

**COMBINAISON D'UNE CIBLE DE SECURITE SUR UN ARTICLE ET D'UNE ETIQUETTE  
IMPRIMEE, SES PROCEDURE ET DISPOSITIF DE PRODUCTION ET D'APPLICATION**

Patent Applicant/Assignee:

SUPERIOR LABEL SYSTEMS INC

Inventor(s):

MAVITY Glen E  
KATHMANN John A

Patent and Priority Information (Country, Number, Date):

Patent: WO 9714126 A1 19970417  
Application: WO 96US15699 19960930 (PCT/WO US9615699)  
Priority Application: US 95542880 19951013

Designated States: AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; CA; CH; CN; CU;  
CZ; DE; DK; EE; ES; FI; GB; GE; HU; IL; KE; KG; KP; KR; KZ; LC; LK; LR;  
LS; LT; LU; LV; MD; MG; MK; MN; MW; MX; NO; NZ; PL; PT; RO; RU; SG; SI;  
SK; TJ; TM; TR; TT; UA; UG; UZ; VN; KE; LS; MW; SD; SZ; UG; AM; AZ; BY;

KG; KZ; MD; RU; AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC;  
NL; PT; SE; BF; BJ; CF; CG; CI; CM; GA; MR; NE; SN; TD; TG

Publication Language: English

Fulltext Word Count: 10630

Fulltext Availability:

Detailed Description

Detailed Discription

... Background of the Invention:

Electronic article merchandising (EAM) is the use of electronic svstems to **deter** and control **theft** from retail stores. It is one of several article **security** systems used in retail stores, libraries and other establishments where theft of articles is a problem. Such systems are more generally referred to as electronic article surveillance or electronic article **security** systems (EAS). EAS systems employ passive electronic circuits affixed to articles in such establishments that...

...example, be in the form of non-contact plate shaped signal generating devices at a **checkout lane** or other point-of-sale location. Various EAS systems and the components thereof are described...EAM or other electronic article security system in further combination with a transmitter, receiver and **alarm device** of the electronic article **security** system. In such a further combination, many but not necessarily all of the articles are...

7/3,K/8 (Item 6 from file: 349)

DIALOG(R)File 349:PCT Fulltext

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00504092

**IMPROVED DROP SAFE**

**COFFRE-FORT A DEPOT PROVISOIRE AMELIORE**

Patent Applicant/Assignee:

BRINK'S INCORPORATED

Inventor(s):

KEITH Jasper Newton III

GUNN William L

HEATH William D Jr

ANGOVE John F G

Patent and Priority Information (Country, Number, Date):

Patent: WO 9704426 A1 19970206

Application: WO 96US12057 19960722 (PCT/WO US9612057)

Priority Application: US 95506021 19950724

Designated States: AL; AM; AT; AU; AZ; BB; BG; BR; BY; CA; CH; CN; CZ; DE;

DK; EE; ES; FI; GB; GE; HU; IL; IS; JP; KP; KR; KZ; LK; LR; LS; LT; LU;

LV; MD; MG; MK; MN; MW; MX; NO; NZ; PL; PT; RO; RU; SD; SE; SG; TJ; TM;

TR; TT; UA; UG; UZ; VN; KE; LS; MW; SD; SZ; UG; AM; AZ; BY; KG; KZ; MD;

RU; TJ; TM; AT; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE;

BF; BJ; CF; CG; CI; CM; GA; GN; ML; MR; TD; TG

Publication Language: English

Fulltext Word Count: 14273

Fulltext Availability:

Detailed Description

Detailed Discription

... intended for mounting near a location of cash transactions, such as a point-of-sale (**POS** ) **terminal** or a conventional cash register. A microprocessor associated with the drop safe receives data signals...

...intervals. The microprocessor can generate a signal when the amount of currency received in the **POS terminal** but not transferred to the drop safe exceeds a predetermined amount, alerting the operator to make such a transfer for **security** reasons.

\* Stated in somewhat greater detail, the microprocessor can be controlled to operate the bill...contents of drop safes according to the present invention are removed with greater efficiency and **security** , because the bulk of the deposits to the drop safe usually are in cassettes that...

...Ilie cash receipts thus are more readily credited to\* the store accounts, at a lesser **cost** for handling and counting those receipts. The message function 164 (Fig. 8) under the main...

...managers in deciding when to transfer cash from a register or other point-of-sale (POS ) **terminal** to the drop safe. For **security** purposes, cash exceeding some predetermined amount should be transferred from cash drawers to the drop...

...in Fig. 7. Assuming the drop safe is used in conjunction with one or more POS **terminals** 191 capable of producing signals that indicate the total volume of sales transactions over a particular time, those signals are transferred from the POS **terminal** to the processor 154 of the drop safe by the data line 190.

The processor...

7/3,K/9 (Item 7 from file: 349)

DIALOG(R)File 349:PCT Fulltext

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00435498

AN INTEGRATED DEVELOPMENT PLATFORM FOR DISTRIBUTED PUBLISHING AND MANAGEMENT OF HYPERMEDIA OVER WIDE AREA NETWORKS

PLATE-FORME DE DEVELOPPEMENT INTEGREE POUR LA PUBLICATION ET LA GESTION REPARTIES D'HYPERMEDIA SUR DES RESEAUX LONGUE PORTEE

Patent Applicant/Assignee:

NAVISOFT INC

Inventor(s):

DOZIER Linda T

WILLIAMS George W V

LONG Dave

MCKEE Douglas M

DAVIDSON James G

BRADY Karen

Patent and Priority Information (Country, Number, Date):

Patent: WO 9630846 A1 19961003

Application: WO 96US1686 19960321 (PCT/WO US9601686)

Priority Application: US 95412981 19950328

Designated States: AL; AM; AT; AU; AZ; BB; BG; BR; BY; CA; CH; CN; CZ; DE; DK; EE; ES; FI; GB; GE; HU; IS; JP; KE; KR; KZ; LK; LR; LS; LT; LU; LV; MD; MG; MK; MN; MW; MX; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; TM; TR; TT; UA; UG; UZ; VN; KE; LS; MW; SD; SZ; UG; AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; MC; NL; PT; SE; BF; BJ; CF; CG; CI; CM; GA; GN; ML; MR; NE; SN; TD; TG

Publication Language: English

Fulltext Word Count: 162571

Fulltext Availability:

Detailed Description

Detailed Discription

... 6.

Similarly, tools menu 106 performs administrative tasks, such as setting access controls (i.e., **costs** and **security** privileges), for collections as a group.

A related aspect of this invention involves the ability...

...Title="Installing the NaviServer" 1 "startup.htm" Up="" Style="Titlez'Starting up the NaviServer" 1 "**security** .htm\* Up="" Style="\*

' Title=**Security** on the NaviServer' 1 "costs .htm' Upz\*0 Style=-  
Title=**Charging** money for access, I "search.htm, Upw\*8 Style...Styl\*-08  
Title=- I

Ghosts:

Refs:

"top.htm,  
0 'install.htm'  
0 Istartup.htmo  
0 \***security** .htm  
0 "costs .html  
0 \*search.html  
0 'under.htm'  
0 \*entup.htm  
0 'smartlnk.htm'  
0 "describe...

...Web/Databases-and-Search4 "install.htm\* 0 \*startup.html 2 Isumoguy1-gif\*  
"startup.htm, 4 'costs .htm' 4 'archive.htm" 4 'logging.htm\* 2  
"sumoguy2.gif\* '**security** .htm\* 0 \*/NS/GetSearchForm/ns-users1 0  
"/NS/GetSearchForm/ns-groups' 0 '/NS/GetS\*archForm/ns-groups2users" 0  
\*/NS/GetSearchForm/ns-permissions\* 0 \*/NS/GetSearchFo=/ns-methods1 2  
'sumoguy3.gif\* \*costs .h=1 0 'scurity.htm" 4 Istartup.htm 2  
'su=guy8.gif\* 0 \*/NS/GetSearchForm/ns-costs ,  
  
0 \*/NS/GetS\*archFo=/ns-charges"  
0 O/NS/GetS\*archForm/ns-total-chargesO  
'search...

7/3,K/10 (Item 8 from file: 349)  
DIALOG(R)File 349:PCT Fulltext  
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00390938

**PRIVATE EXCHANGE FOR ISDN**

**CENTRAL PRIVE POUR RNIS**

Patent Applicant/Assignee:

ADAK COMMUNICATIONS CORPORATION

Inventor(s):

DALE Allan D  
GOODRICH Earl II  
BAYERL Thomas R  
DICK Brian P  
ENGLISH Scott W B  
DOUGHERTY John C

Patent and Priority Information (Country, Number, Date):

Patent: WO 9522218 A2-A3 19950817

Application: WO 95US1331 19950202 (PCT/WO US9501331)

Priority Application: US 94192177 19940204; US 94234548 19940428

Designated States: AM; AT; AU; BB; BG; BR; BY; CA; CH; CN; CZ; DE; DK; EE;  
ES; FI; GB; GE; HU; JP; KE; KG; KP; KR; LR; LT; LU; LV; MD; MG; MN; MW;  
MX; NL; NO; NZ; PL; PT; RO; RU; SD; SE; SI; SK; TJ; TT; UA; UZ; MW; SD;  
SZ; AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF;  
BJ; CF; CG; CI; GN; ML; MR; NE; SN; TD; TG

Publication Language: English

Fulltext Word Count: 34837

Fulltext Availability:

Detailed Description

Detailed Discription

... devices that may be connected to the four digital ports include  
computers, credit card readers, **security** or alarm sensors, and other  
data devices. The system includes a highly capable microprocessor system  
...

...storage capability and advanced serial data handling capability.  
Additionally, the private exchange includes a low **cost** , highly functional voice mail system.

These and other advantages, features and aspects of the present...

7/3,K/11 (Item 9 from file: 349)  
DIALOG(R)File 349:PCT Fulltext  
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00296351

**MOBILE MANAGEMENT SYSTEM FOR TRANSPORTABLE BUSINESS OPERATIONS**  
**SYSTEME DE GESTION MOBILE POUR AFFAIRES COMMERCIALES TRANSPORTABLES**

Patent Applicant/Assignee:

CARTS OF COLORADO INC

Inventor(s):

GALLERY Stanley A

SCHULTZ Timothy R

Patent and Priority Information (Country, Number, Date):

Patent: WO 9206439 A1 19920416

Application: WO 91US7375 19911003 (PCT/WO US9107375)

Priority Application: US 90593236 19901005

Designated States: AT; AU; BE; CA; CH; DE; DK; ES; FR; GB; GR; IT; JP; KR;  
LU; NL; SE

Publication Language: English

Fulltext Word Count: 4634

Fulltext Availability:

Detailed Description

Detailed Discription

... utilization, cash management, inventory control, equipment  
maintenance, product quality and to enhanced personnel and property  
**security** through a real time **security alert mechanism** .

The system of the present invention is particularly useful for the  
management of multiple remote...paging, which informs a manager, wherever  
he or she happens to be located, of a **security** breach, would restrict  
its **value** and usefulness to its owner.

Inventory tracking systems for warehouses and the like are also...

7/3,K/12 (Item 10 from file: 349)  
DIALOG(R)File 349:PCT Fulltext  
(c) 2000 WIPO/MicroPatent. All rts. reserv.

00277245

**POINT OF SALE SYSTEM**  
**SYSTEME DE POINT DE VENTE**

Patent Applicant/Assignee:

VIATA CORPORATION

Inventor(s):

SMALL John A

MILLS David G

CARROLL Michael Robert

Patent and Priority Information (Country, Number, Date):

Patent: WO 9107725 A2 19910530

Application: WO 90US6799 19901120 (PCT/WO US9006799)

Priority Application: US 89439981 19891121

Designated States: AT; AU; BE; BR; CA; CH; DE; DK; ES; FI; FR; GB; GR; HU;  
IT; JP; KP; KR; LU; NL; NO; RO; SE; SU

Publication Language: English

Fulltext Word Count: 18243

Fulltext Availability:

• Detailed Description

Detailed Discription

... the system provides numerous advantages including enhanced effectiveness, improved operating characteristics, improved reliability, greater **security** , and reduced **cost** .

Additionally it will be evident that it is relatively simple to construct from readily available...

?

File 15:ABI/INFORM(R) 1971-2000/Jun 07  
     (c) 2000 Bell & Howell  
 File 9:Business & Industry(R) Jul/1994-2000/Jun 07  
     (c) 2000 Resp. DB Svcs.  
 File 623:Business Week 1985-2000/May W4  
     (c) 2000 The McGraw-Hill Companies Inc  
 File 810:Business Wire 1986-1999/Feb 28  
     (c) 1999 Business Wire  
 File 275:Gale Group Computer DB(TM) 1983-2000/Jun 07  
     (c) 2000 The Gale Group  
 File 624:McGraw-Hill Publications 1985-2000/Jun 07  
     (c) 2000 McGraw-Hill Co. Inc  
 File 813:PR Newswire 1987-1999/Apr 30  
     (c) 1999 PR Newswire Association Inc  
 File 636:Gale Group Newsletter DB(TM) 1987-2000/Jun 07  
     (c) 2000 The Gale Group  
 File 621:Gale Group New Prod.Annou.(R) 1985-2000/Jun 06  
     (c) 2000 The Gale Group  
 File 16:Gale Group PROMT(R) 1990-2000/Jun 07  
     (c) 2000 The Gale Group  
 File 160:Gale Group PROMT(R) 1972-1989  
     (c) 1999 The Gale Group  
 File 148:Gale Group Trade & Industry DB 1976-2000/Jun 07  
     (c)2000 The Gale Group  
 File 20:World Reporter 1997-2000/Jun 07  
     (c) 2000 The Dialog Corporation plc

Set	Items	Description
S1	22138	(SELF()SERVICE? OR POS OR CHECKOUT OR CHECK()OUT? ) (N4) (-REGISTER? OR TERMINAL? OR LANE? OR STATION?)
S2	14348	(TRIGGER? OR ALARM? OR ALERT?) (N2) (POINT? OR MECHANISM? -OR DEVICE?)
S3	14350757	COST? OR PRICE? OR VALUE? OR FEE? ?
S4	9735	(STOP? OR DETECT? OR CHECK? OR DETER? ? OR PREVENT?) (N4) -(THEFT? )
S5	2421034	SECURITY
S6	20	S1 AND S2 AND S3
S7	4	S6 (S) (S4 OR S5)
S8	15	S6 NOT PY=1999:2000
S9	10	RD (unique items)
S10	3	S7 NOT PY=1999:2000
S11	2	RD (unique items)
?		

9/3,K/1 (Item 1 from file: 15)  
DIALOG(R) File 15:ABI/INFORM(R)  
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01069976 97-19370

### Partnerships with pull

Andel, Tom

Transportation & Distribution v36n7 PP: 65-74 Jul 1995

ISSN: 0895-8548 JRNL CODE: HLS

WORD COUNT: 2727

...ABSTRACT: effective use of POS data have come from those comfortable with the status quo. The **value** POS data management offers to a business depends largely on which industry it is in...

...TEXT: P&G uses those data to calculate optimum replenishment quantities based on full-truck, best-**price** models. That information is then communicated to the customer so they know what is going...

... the application to look at how often they should be shipping full truckload.

### Mining the **value**

The roadblocks to effective use of POS data have come from those comfortable with the...

... still trying to push product and create deals that are better than what the average **cost** would be under a continuous replenishment scenario, it will disrupt the mechanism."

Gordon believes there...

... themselves as independent agents in such relationships. They provide code at both ends of their **value** -added networks to determine who sees what, how often, and under what kind of security.

The **value** POS data management offers to your business depends largely on which industry you're in...

... Code Council (UCC) as the organizing body for it. At that time this technology was **valued** primarily for its productivity and accuracy improvement. You could get people through checkout much quicker...could be done with these data. In the right hands, the information generated at the **POS terminal** could bring operational improvements all along the distribution chain. But who should be given access...

... s at that point you can have an effect on customer service levels and the **costs** required to support those levels."

Wolfe describes the benefits one firm realized by moving from...

... president of Kurt Salmon Associates, the international research and consulting firm. "The benefit was not **cost** reduction but business building. While I don't think POS in the near term will be used in direct store replenishment, good accurate POS information has many other **values** particularly for much greater focus on category management and store assortment. If you have good...

... or EDI with 10% of your customers, he cautions, you probably won't receive any **cost** benefit by conducting two ways of doing business with different groups of customers. Unless you conduct around half of your transactions this way, the net-net **cost** benefit will be negligible.

"Some manufacturers say they will get involved if their customers ask...

... proactive position and seek to build their volume will be the ones who receive a **cost** benefit."

Sharing the wealth

Will we see the day where it will be common practice...

... dollar-per-case savings to the supply chain. But when they looked at where the **costs** and benefits accrued and drew the company entity boundaries, they found the distributor **costs** went down \$1.50 but the manufacturer's **cost** went up 50 cents on a per-case basis. What's missing with VMI in this case and in other relationships where a manufacturer is supplying **value** adding services saving the distributor **costs**, is a way to recoup investment.

"The key nut to crack is gain-sharing mechanisms...one five days away, and another had one two days away, it could anticipate the **trigger points** based on on-shelf inventory," Troyer explains. "You'd virtually eliminate inventory in the DC..."

... 000 items replenished through INFOREM. They are realizing increased sales and turnover and decreasing logistics **costs**.

For example, the chain handles about 250 Campbell's Soup products. Through VMI, Campbell's...

...and cut inventory in half.

"The vendor is key to our profitability from the initial **cost** to the initial profit margin," says Ron McEvoy, senior vice president and chief information officer...

9/3,K/2 (Item 2 from file: 15)  
DIALOG(R)File 15:ABI/INFORM(R)  
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00584529 91-58876

#### **What You Must Do for the Disabled**

McKee, Bradford

Nation's Business v79n12 PP: 36, 38-40 Dec 1991

ISSN: 0028-047X JRNL CODE: NAB

WORD COUNT: 3884

...ABSTRACT: main areas, alterations or renovations must have paths of travel usable by the disabled. The **cost** of accessible features need not exceed 20% of the whole **cost** of the alteration. Because it may be hard for firms to remove all barriers at...

...TEXT: dining room, alterations or renovations must have paths of travel usable by the disabled. The **cost** of accessible features need not exceed 20 percent of the whole **cost** of the alteration, however.

Any change to a building that would make it less accessible...60 inches (1,525 by 1,525 mm) and must occur at least every 200 **feet** (61 meters) on the path. A T-shaped intersection of two corridors counts as acceptable...

...ramp if it is greater than 1:20 (a 1-foot rise for each 20 **feet** of the path), and it must follow ramp-access rules. (See the "Ramps" section on...

... lot as long as it is at least equally as convenient as general parking and **costs** no more.

The number of accessible parking spaces for a business serving the public is...a path that has a slope steeper than one foot of rise for each 20 **feet** of its run (1:20). Ramps should have as little slope as possible, and new...

...have handrails.

#### **Elevators**

New buildings of three or more stories or with 3,000 square **feet** or more per story must have elevators. If the building is a shopping mall or... seats exceeding 500.

Wheelchair accommodation in places of assembly includes offering a choice of admission **prices** and lines of sight comparable to those enjoyed by the nondisabled public.

A fixed seat...

...and teller stations in banks.

In newly built stores with less than 5,000 square **feet** , only one checkout aisle need be accessible, that is, 36 inches (915 mm) wide, although...

...as narrow as 32 inches (815 mm). In stores with more than 5,000 square **feet** , at least one of each type of **checkout** aisle (such as express **lanes** ) must be accessible.

Accessible aisles must have adjacent counters no higher than 38 inches (965

... offer people with disabilities the same type of choices other guests have in room size, **cost** , amenities, and number of beds.

If a lodging place limits accessible rooms to, say, double...

... and the same number must include aids for people with hearing impairments, such as visual **alarms** and notification **devices** (which **alert** people to incoming calls or knocks on doors, for example) and adaptive telephones.

For More...

... U.S. Chamber of Commerce, 1615 H Street, N.W., Washington, D.C. 20062. The **price** is \$20 per copy for U.S. Chamber members, \$33 for nonmembers. For credit-card...

9/3,K/3 (Item 1 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2000 Resp. DB Svcs. All rts. reserv.

01914542 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Wireless carriers demand more of enhanced service providers**  
(According to a survey, users of wireless enhanced services total approximately 500,000; this number could rise to about 15.6 mil in 2001)  
RCR Radio Communications Report, v 16, n 32, p 14+  
August 11, 1997  
DOCUMENT TYPE: Journal; Survey ISSN: 0744-0618 (United States)  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 2057

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...for nationwide. Voice mail goes for \$2 to \$7 per month, depending on service grade. **Price** quotes on operator dispatch and customized stock and news are available on demand. The company...

...t want their calls to stop at the border. And carriers will be looking for **value** -added services that not only will add incremental revenue but will help ensure customer loyalty...

...wireless carriers will not bear the brunt of system buildout and subscribers will be charged **prices** competitive to normal international calling plus a "mobility" surcharge.

"This is not a service for everyone," Walz admitted. "You have to go after the market that sees the most **value** and will pay a high **cost** . Business travelers are willing ...Association notes that while CPP is popular on the international front because it "fosters greater **cost** controls by wireless consumers, greater acceptance of wireless services, higher wireless usage and more evenly..."

...alert consumers that they will pay for a wireless call; besides coming up with an **alert mechanism**, Roche found that some wired switches cannot intercept a call to a wireless phone in...

...in nine years.

Consumers want access to a number of these services but, as always, **price** will be an issue. Fifty percent of those interested in personal location services were unwilling...

...instant processing of debit and credit cards, and check validation. One Washington, D.C.-based **POS terminal** vendor, MobyTel, sells its portable devices based on the following features: no power cords, no busy signals, no long-distance charges, no geographic limitations and no roaming **fees**. The company has agreements with wireless carriers covering 7,700-plus locales nationwide.

It is...

9/3,K/4 (Item 1 from file: 813)

DIALOG(R) File 813:PR Newswire

(c) 1999 PR Newswire Association Inc. All rts. reserv.

0840813

DC006

**ELECTRONIC PAYMENT SERVICES SELECTS MAXM SYSTEMS CORPORATION FOR  
CENTRALIZED EVENT MONITORING AND AUTOMATED OPERATIONS**

DATE: July 17, 1995 09:58 EDT WORD COUNT: 795

...is the business requirement to maintain maximum levels of availability, resolve problems quickly and keep **costly** technical support to a minimum. With the current wave of bank consolidations, network managers are...

...that make up the EPS networks, including Tandem operating system alarms, ATM application alarms and **alarms** from proprietary **devices** on the telecommunications network. The MAXM software correlates this event data; filters and processes all...

...in the United States based on switch transactions, with 17,900 ATMs and 150,000 **POS terminals** in 34 states. 1,600 financial institutions are members of the MAC network, with 28...

9/3,K/5 (Item 1 from file: 16)

DIALOG(R) File 16:Gale Group PROMT(R)

(c) 2000 The Gale Group. All rts. reserv.

07041568 Supplier Number: 57479851 (USE FORMAT 7 FOR FULLTEXT)

\* **Putting express in POS. (self-checkout systems)**

Beyer, Leslie

Grocery Headquarters, v63, n5, p112(3)

May, 1997

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 1546

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

As retailers search for solutions to ease **checkout lane** congestion, some are considering advanced technology systems that provide shoppers the convenience of self-checkout.

... spends as much as six months in a lifetime waiting in line.

Unfortunately, bottle-necked **checkout lanes** in supermarkets can account for a hefty percentage of that waiting time.

As supermarket executives consider new solutions to this nagging

problem, technology has opened the door - and the **checkout lane** - to new opportunities helping to ease checkout congestion.

Two companies believe they have found a...  
...dispenser, which issues a bar coded transaction ticket. The ticket is taken to an express **check-out lane** where the cashier scans it and payment is made.

Simple enough, but what about shrink...

...punch in a code.

Shoppers are issued the bar-coded tag listing the weight and **price** of the item. If produce items are not tagged by a self-service scale, they ...

...the customer's bill.

To help avoid shrink, the system has a built-in rescan **mechanism** that is **triggered** on a random basis (approximately every 15 to 20 purchases) as shoppers go through the **checkout lane**.

Additionally, Riso said when customers sign the application to use the portable scanner, they agree...

...as an RF system which directly communicates online to the store's POS system.

"The **value** of the portable scanner is the added service to customers," said Riso. "It seems funny..."

...vice president of future retailing for NCR. "There are more than 175,000 food store **checkout lanes** in the United States and 25 percent to 30 percent of those are express. We...environment - not a modified POS system.

"Retailers are very interested in differentiation, customer service and **cost** savings. We were interested in meeting those needs," said Walter. "The idea behind our concept is that the self-**checkout lanes** will never close. So it saves on staffing because the retailer knows he will always..."

9/3,K/6 (Item 1 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2000 The Gale Group. All rts. reserv.

08864226 SUPPLIER NUMBER: 18451519

**Tech du jour. (restaurant technology)**

Jesitus, John

Hotel & Motel Management, v211, n9, p36(2)

May 20, 1996

ISSN: 0018-6082 LANGUAGE: English RECORD TYPE: Fulltext; Abstract

WORD COUNT: 1070 LINE COUNT: 00092

...ABSTRACT: hardware are also relying on the utilization of touchscreen user interfaces that is reliable and **cost** effective. Some of these restaurant technology gadgets include the IS4 Restaurant System, MICRO 3700 POS...

... for years, only recently have they been able to offer the level of reliability and **cost** effectiveness required by hotel restaurateurs.

By using larger buttons and pictures, today's systems deliver...

...monitor-style touchscreens or a flat desktop model.

"There's a substantial difference in the **price** between the two," Burroughs said, and the flat version's smaller footprint is said to favor its application in **cost** - and space-conscious environments.

Also new is the MICROS 3700 POS System, scheduled for introduction...

...on the market that integrates a menu display, credit-card reader and printer in every **terminal**.

The self-contained Sable **POS** can be hung on a wall to conserve space. Sable said its simple screen design...

...back and look at it," Rivas said.

The Panasonic system's built-in index and **alarm mechanisms** are designed to eliminate such "hunting trips." (A similar interface allows

Panasonic's POS system...

...inventory - control/purchasing system developed by Markham,  
Ontario-based Northwind Software now offers a recipe **cost** -control module.

Updating inventory

"In a nutshell," said Donald Kwang, the company's national sales...

...larger properties with multiple f&b outlets.

Specific functions handled by the system could include **costing** out a  
T-bone steak dinner - complete with spices and vegetables - or making daily  
**price** updates for fresh seafood.

Employee scheduling and training also are becoming automated. In the  
former...

9/3,K/7 (Item 2 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

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08124425 SUPPLIER NUMBER: 17389671 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Plastics technology: manufacturing handbook & buyers' guide 1995/96. (Buyers  
Guide)**

Plastics Technology, v41, n8, pCOV(941)

August, 1995

DOCUMENT TYPE: Buyers Guide ISSN: 0032-1257 LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 174436 LINE COUNT: 15187

... duty thrust beatings; and bimetallic barrels.

Polycrunch film-reclaim systems include extruder with large conical  
**feed** section and grooved throat. Scrap film can be fed loose directly into  
**feed** section without the need for granulating. Pelletizing system  
includes underwater die plate with variable-speed...

...120 in. wide and 60 in. diam. with max. line speeds over 850 fpm.  
Grooved-**feed** barrels with solid tungsten-carbide inserts standard. Also  
stationary or rotating extruders and winders, oscillating...to quick  
installation and start-up.

Custom-built, single-screw compounding/pelletizing extruders in melt-  
**feed**, cold-**feed**, and batch-**feed** designs; diam. to 20 in.; and output  
rates to over 60,000 lb/hr. (See...fiber melt spinning, and pelletizing.  
(See Compounding, Mixing, Blending Systems.)

DAVIS-STANDARD CORP.

Customized extruders, **feed** screws, drives and controls for wire and  
cable, pipe, profile, medical tubing, sheet, blown and...single-screw  
extruders and sheet systems 20-66 in. wide complement traditional  
customized offerings at **cost** savings of 10-20%, and delivery times four  
to six weeks shorter than for custom...

...diam., for production rates as high as 50,000 lb/hr. Hot-melt extruders,  
cold-**feed** extruders, and machines for receiving the discharge from batch  
or continuous mixers. Underwater pelletizers and...

...lines for monolayer extrusion and coextrusion include single-screw  
extruders with smooth-bore or grooved-**feed** throats, manual screen  
changers, die assemblies (1 to 90 in.), air rings, take-offs, slitters...  
film thickness or roll quality.

Extruders can be stationary, oscillating or rotating with either  
grooved-**feed** barrel and decompression screw or smooth barrel and  
compression screw. Grooved-**feed** extruders from 40- to 100-mm diam.;  
smooth bore extruders from 30- to 60-mm...

...feedblock prior to a single-slot extrusion die or a multislot extrusion  
die having individual **feed** channels. Skin-layer coextrusion uses a  
feedblock. Dies can have automatic die-gap adjustments and...extruders to  
8-in. diam. use dual-diam. extruders and/or hopper crammers, depending on  
**feed** material.

Custom single-screw compounding extruders to 8-in. diam. provide for  
multiple venting, downstream...

See Louis P. Batson ...to-batch metering adjustments to ensure accuracy.

Gravicon loss-in-weight blenders offer a lower-cost method of gravimetric blending up to four materials at up to 5000 lb/hr with...

...1/8-in. die. Temperature controls for rotor and die and water-cooling channels on feed hopper. Handles pellet, powder, flake or crumb.

DAVIS-STANDARD CORP.

D-tex twin-screw corotating...

...for downstream solids addition or devolatilization.

Sterling single-screw compounding extruders handle cold- or hot-feed additive blending. Hard-to-feed material can be introduced either by ram stuffer or screw auger to force-feed materials at the extruder throat, or through a sidearm addition where the material is metered...to + or -|0.05% by weight. Continuous inventory monitoring of all ingredient throughputs is standard. Feed and control options include plantwide data acquisition and material-usage control with central microcomputer. Custom and proprietary systems include options such as liquid feed by weight.

Also pellet and powder feeders, both volumetric and gravimetric, for mixing and feeding...virgin pellets and additives. Controls allow color changes on-the-fly by initiating 100% virgin feed while hoppers and auger assemblies are changed over to another material. Unit can then switch...

...per holder. Also offers space-saving, single-drum corner unit. Most units available with low-cost chain drive or longer-lasting, maintenance-free belt drive.

For high-volume, high-speed blending...good mass flow, and consistent screw fill. Powershift feeder-drive system permits widest range of feed rates - to 500:1 turndown.

K2-Volumetric feeders offer same Powersphere and Powershift features as...

...microprocessor control that includes "no-flow" alarms.

New compact loss-in-weight feeders for low feed rates, laboratories, and installations where headroom is a problem. Available in single-screw, twin-screw...

...of a single vacuum blower.

LASITS-ROHLINE SERVICE, INC. L-R SYSTEMS

Line of auger-feed, vibratory-feed, weigh-scale, and loss-in-weight blenders for two to eight materials have capacities to... liquid mixtures. Some models use rolling action and others end-over-end tumbling. Some have self-loading capability. Portable and stationary models use fixed- or variable-speed drives and various electric or air motors.

MOULD-TEK...

...resultant blend is completely homogeneous. No further blending is required in the catch hopper. Energy costs are low because there are no moving agitator parts. Cleanout is simple because the static...compounded on the same machine without the need to reconfigure screw geometry. With a secondary feed zone downstream from the rotor section, glass fibers and other delicate reinforcements can be safely...from one pint to 16 gal. Said to be highly effective for resin pastes. Low-cost vacuum chamber and pump remove air bubbles. Chamber accommodates up to 5-gal containers and...

...chamber for easy cleaning and color change. Common bed plate allows simple, space-saving, low-cost installation. Units range from 0.5-liter lab size to 300 liters and include motor kinetic energy of a high-velocity liquid stream into intense mixing energy. Dual-feed systems instantaneously convert two independent liquid streams into one fully homogenized product. This process can...

...time, energy amount, and energy distribution over time. Automation of system is said to eliminate costly and messy batching.

TAH INDUSTRIES, INC.

"Apple Core" spiral motionless mixers mix thermosets such as...

plant automation include CIMplementation system. Retrofit program designed for fast, **cost** -effective outfitting of older extruders with state-of-the-art control systems or prepackaged individual components. (See ad p. 230.)

CANADIAN INSTRUMENTATION CO.

Custom total machine-control systems include **cost** -effective heat/cool autotune PID control, communications, and user-alterable logic (sequence) control. Applications include small injection machines, hot-stamp machines and special plastics-processing machines. Engineering **costs** minimized by extensive library of existing functions.

CINCINNATI MILACRON U.S. PLASTICS MACHINERY DIV.

Family...screw-speed or line-speed control. Process information, such as total pounds used and total **feet** produced, can be displayed and printed. Output ranges from under 2 lb/hr to over...

...a single interface for information such as scanning measurement, process data, trending and current process **values**, SPC/SQC charting, and recipe storage.

MXOpen is compatible with most programmable controls, drives, etc...

...stored internally.

Gravimacs loss-in-weight extrusion control enables continuous measurement and control of extruder **feed**. Extruder or puller speed can automatically be adjusted.

PPC Ultrasonic Measurement & Control System provides a...up to 31 Scoremaster systems linked together in a network.

System 10T and Trailblazer are **cost** -effective, easy to use, and come equipped with economical LCD screens. They provide total machine...  
INFRA-RED TECHNOLOGIES, INC.

Flameless infrared catalytic heaters fed by natural gas reportedly reduce en

### Status: Break Sent.

?t 9/ti,ab/8-10;t 11/3,k/1-2

>>>Some display codes not found in file 623: AB

>>>Some display codes not found in file 810: AB

>>>Some display codes not found in file 624: AB

>>>Some display codes not found in file 813: AB

9/TI,AB/8 (Item 3 from file: 148)

DIALOG(R)File 148:(c)2000 The Gale Group. All rts. reserv.

**Lock the barn door before the horses are gone. (preventing theft from automotive supply stores)**

ABSTRACT: Automotive retailers' profits are greatly affected by employee theft and shoplifting. To avoid significant financial losses, automotive store managers need to take safety measures such as assignment of the store's money handling responsibilities and payroll control to reliable employees and use of electronic devices and deterrents to prevent shoplifting. Installation of burglar alarms and use of appropriate measures to assure building security can discourage potential criminals.

9/TI,AB/9 (Item 4 from file: 148)

DIALOG(R)File 148:(c)2000 The Gale Group. All rts. reserv.

**Wireless '95. (Cellular Telecommunications Industry Association 10th annual Convention and Exposition scheduled for FEBruary 1-3, 1995 at the Ernest N. Morial Convention Center in New Orleans, Louisiana)**

9/TI,AB/10 (Item 5 from file: 148)

DIALOG(R)File 148:(c)2000 The Gale Group. All rts. reserv.

**No more coupon clipping. (audio-video grocery checkout terminals from Advanced Promotion Technologies Inc.) (includes related article)**

11/3,K/1 (Item 1 from file: 15)  
DIALOG(R)File 15:ABI/INFORM(R)  
(c) 2000 Bell & Howell. All rts. reserv.

01069976 97-19370

**Partnerships with pull**

Andel, Tom

Transportation & Distribution v36n7 PP: 65-74 Jul 1995

ISSN: 0895-8548 JRNL CODE: HLS

WORD COUNT: 2727

...TEXT: themselves as independent agents in such relationships. They provide code at both ends of their **value** -added networks to determine who sees what, how often, and under what kind of **security** .

The value POS data management offers to your business depends largely on which industry you...

11/3,K/2 (Item 1 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2000 The Gale Group. All rts. reserv.

07914468 SUPPLIER NUMBER: 16938069 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Lock the barn door before the horses are gone. (preventing theft from automotive supply stores)**

Katcher, Philip

Automotive Marketing, v24, n5, p40(3)

May, 1995

ISSN: 0193-3264

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 2239 LINE COUNT: 00171

... management wasn't that happy when they discovered that the store manager never connected the **register** to the chain **POS** system and was simply pocketing whatever sales receipts that he took in.

More typically, crime...

...centered at the back door," Reilly says. The main problem for jobbers is -what the **security** industry calls "sweethearting," which takes place between an employee and a professional installer/customer. There...

...just give the part to the installer for free or a fraction of the listed **price** .

The key to preventing "sweethearting" is making sure transactions between counterpersonnel and professional installer customers...

?

File 77:Conference Papers Index 1973-2000/May  
 (c) 2000 Cambridge Sci Abs  
 File 35:DISSERTATION ABSTRACTS ONLINE 1861-1999/DEC  
 (c) 2000 UMI  
 File 583:Gale Group Globalbase(TM) 1986-2000/Jun 07  
 (c) 2000 The Gale Group  
 File 2:INSPEC 1969-2000/Apr W5  
 (c) 2000 Institution of Electrical Engineers  
 File 65:Inside Conferences 1993-2000/Jun W1  
 (c) 2000 BLDSC all rts. reserv.  
 File 233:Internet & Personal Comp. Abs. 1981-2000/Jun  
 (c) 2000 Info. Today Inc.  
 File 99:Wilson Appl. Sci & Tech Abs 1983-2000/Apr  
 (c) 2000 The HW Wilson Co.

Set	Items	Description
S1	906	(SELF()SERVICE? OR POS OR CHECKOUT OR CHECK()OUT? ) (N4) (-REGISTER? OR TERMINAL? OR LANE? OR STATION?)
S2	2053	(TRIGGER? OR ALARM? OR ALERT?) (N2) (POINT? OR MECHANISM? -OR DEVICE?)
S3	1665014	COST? OR PRICE? OR VALUE? OR FEE? ?
S4	283	(STOP? OR DETECT? OR CHECK? OR DETER? ? OR PREVENT?) (N4) - (THEFT? )
S5	88044	SECURITY
S6	0	S1 AND S2 AND S3
S7	0	S6 (S) (S4 OR S5)
S8	0	S1 AND S2
S9	1	S1 AND TRIGGER?
S10	0	S1 AND S4

9/7/1 (Item 1 from file: 99)

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs  
(c) 2000 The HW Wilson Co. All rts. reserv.

2031587 H.W. WILSON RECORD NUMBER: BAST97069447

**Making money with point-of-sale**

Greenberg, Ilan;

Byte v. 22 (Nov. 1997) p. 104M-104N+

DOCUMENT TYPE: Feature Article ISSN: 0360-5280

ABSTRACT: Retail technology is undergoing a dramatic transformation that has been **triggered** by the wide-scale adoption of PC-based point-of-sale (POS) packages. The new POS systems offer retailers increased integration and new capabilities that include sales-figure consolidation and the automatic coordination of miscellaneous data. Four important technologies have made the POS revolution possible: new GUIs, RF labels, adherence to client/server application APIs, and easy integration with back-office systems. In addition, Java has the potential to make the biggest difference of all by connecting a **POS station** to a Web-based infrastructure.

?

File 473:Financial Times Abstracts 1998-2000/Jun 06

(c) 2000 The New York Times

File 474:New York Times Abs 1969-2000/Jun 06

(c) 2000 The New York Times

File 475:Wall Street Journal Abs 1973-2000/Jun 06

(c) 2000 The New York Times

Set	Items	Description
S1	86	(SELF()SERVICE? OR POS OR CHECKOUT OR CHECK()OUT? ) (N4) (- REGISTER? OR TERMINAL? OR LANE? OR STATION?)
S2	201	(TRIGGER? OR ALARM? OR ALERT?) (N2) (POINT? OR MECHANISM? - OR DEVICE?)
S3	286412	COST? OR PRICE? OR VALUE? OR FEE? ?
S4	295	(STOP? OR DETECT? OR CHECK? OR DETER? ? OR PREVENT?) (N4) - (THEFT? )
S5	50633	SECURITY
S6	0	S1 AND S2 AND S3
S7	0	S6 (S) (S4 OR S5)
S8	0	S1 (S)S2
S9	0	S1(S)S4
S10	0	S1 (S)TRIGGER?
?		

File 635:Business Dateline(R) 1985-2000/Jun 07  
(c) 2000 Bell & Howell  
File 47:Gale Group Magazine DB(TM) 1959-2000/Jun 07  
(c) 2000 The Gale group  
File 570:Gale Group MARS(R) 1984-2000/Jun 07  
(c) 2000 The Gale Group  
File 146:Washington Post Online 1983-2000/Jun 07  
(c) 2000 Washington Post  
File 387:The Denver Post 1994-2000/Jun 06  
(c) 2000 Denver Post  
File 471:New York Times Fulltext-90 Day 2000/Jun 07  
(c) 2000 The New York Times  
File 492:Arizona Repub/Phoenix Gaz 1986-2000/Jun 06  
(c) 2000 Phoenix Newspapers  
File 494:St LouisPost-Dispatch 1988-2000/Jun 05  
(c) 2000 St Louis Post-Dispatch  
File 498:Detroit Free Press 1987-2000/Jun 07  
(c) 2000 Detroit Free Press Inc.  
File 630:Los Angeles Times 1993-2000/Jun 07  
(c) 2000 Los Angeles Times  
File 631:Boston Globe 1980-2000/Jun 06  
(c) 2000 Boston Globe  
File 632:Chicago Tribune 1985-2000/Jun 07  
(c) 2000 Chicago Tribune  
File 633:Phil.Inquirer 1983-2000/Jun 05  
(c) 2000 Philadelphia Newspapers Inc  
File 638:Newsday/New York Newsday 1987-2000/Jun 06  
(c) 2000 Newsday Inc.  
File 640:San Francisco Chronicle 1988-2000/Jun 07  
(c) 2000 Chronicle Publ. Co.  
File 641:Denver Rky Mtn News Jun 1989-2000/Jun 04  
(c) 2000 Scripps Howard News  
File 702:Miami Herald 1983-2000/Jun 06  
(c) 2000 The Miami Herald Publishing Co.  
File 703:USA Today 1989-2000/Jun 06  
(c) 2000 USA Today  
File 704:(Portland)The Oregonian 1989-2000/Jun 04  
(c) 2000 The Oregonian  
File 713:Atlanta J/Const. 1989-2000/Jun 06  
(c) 2000 Atlanta Newspapers  
File 714:(Baltimore) The Sun 1990-2000/Jun 05  
(c) 2000 Baltimore Sun  
File 715:Christian Sci.Mon. 1989-2000/Jun 07  
(c) 2000 Christian Science Monitor  
File 725:(Cleveland)Plain Dealer Aug 1991-2000/Jun 06  
(c) 2000 The Plain Dealer  
File 735:St. Petersburg Times 1989- 2000/Jun 03  
(c) 2000 St. Petersburg Times

Set	Items	Description
S1	5525	(SELF()SERVICE? OR POS OR CHECKOUT OR CHECK()OUT? ) (N4) (- REGISTER? OR TERMINAL? OR LANE? OR STATION?)
S2	8355	(TRIGGER? OR ALARM? OR ALERT?) (N2) (POINT? OR MECHANISM? - OR DEVICE?)
S3	7876361	COST? OR PRICE? OR VALUE? OR FEE? ?
S4	9751	(STOP? OR DETECT? OR CHECK? OR DETER? ? OR PREVENT?) (N4) - (THEFT? )
S5	1121069	SECURITY
S6	6	S1 AND S2 AND S3
S7	0	S6 (S) (S4 OR S5)
S8	5	S1(S)S4
S9	1	S1(S)S2
?		

8/3,K/1 (Item 1 from file: 47)

DIALOG(R)File 47:Gale Group Magazine DB(TM)  
(c) 2000 The Gale group. All rts. reserv.

04081588 SUPPLIER NUMBER: 15714695 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Making your move and getting it right. (planning and moving a new library)**

Wells, Marianna; Young, Rosemary  
Special Libraries, v85, n3, p145(9)  
Summer, 1994

ISSN: 0038-6723 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 4620 LINE COUNT: 00387

... close to each other. Allow for a distance of at least 10 feet between the **check -out terminals** and sensitizer/desensitizer equipment and another 10 feet between the sensitizer/desensitizer equipment and the **theft detection** system.

Staff areas should be designed to facilitate work flow. Woodson(16) and Ramsey(17...

8/3,K/2 (Item 1 from file: 570)

DIALOG(R)File 570:Gale Group MARS(R)  
(c) 2000 The Gale Group. All rts. reserv.

01871143 Supplier Number: 60907997 (USE FORMAT 7 FOR FULLTEXT)

**STEMMING THE STUB-OUT; MAKERS AND RETAILERS ARE TRYING TO LIGHT A FIRE UNDER SAGGING CIGARETTE SALES BUT MATCHING PURCHASING CONVENIENCE WITH LAWS AND CHANGING ATTITUDES CAN BE A DRAG.**

BLANK, CHRISTINE

Supermarket News, p45

March 27, 2000

ISSN: 0039-5803

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 1133

... cigarette purchaser at Stump's Market, San Diego. Although the locked case at the last **checkout lane** is "very inconvenient," Stump's moved cigarettes there to **prevent theft**.

"In some of the states, we've seen regulations that have put supermarkets at a...

8/3,K/3 (Item 2 from file: 570)

DIALOG(R)File 570:Gale Group MARS(R)  
(c) 2000 The Gale Group. All rts. reserv.

01637719 Supplier Number: 48208435 (USE FORMAT 7 FOR FULLTEXT)

**Power tools get protection**

Halverson, Richard

Discount Store News, p45

Jan 5, 1998

ISSN: 0012-3587

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 1587

... the program to all hardware stores.

Tool corrals, with their extra security from a staffed **checkout register**, are a standard fixture at Home Depot and Lowe's, but they remain in the...

...its latest version of the power tool corral, designed to balance the competing needs of **preventing theft** of highly prized power tools and encouraging sales by making tools readily accessible.

The retailer...

8/3,K/4 (Item 3 from file: 570)  
DIALOG(R)File 570:Gale Group MARS(R)  
(c) 2000 The Gale Group. All rts. reserv.

01541304 Supplier Number: 46269081 (USE FORMAT 7 FOR FULLTEXT)  
**Target starts campaign in East**  
Discount Store News, p1  
April 1, 1996  
ISSN: 0012-3587  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 1263

... enter. Target now protects all of its stores with Checkpoint monitors at exits, and sticks **Checkpoint** anti-theft EAS tags on frequently stolen items. To secure cigarettes, a high theft item, Fredricksburg keeps cigarettes under lock and key at **checkout register** No. 1. Cigarette buyers at the other checkouts, which number 16, must wait while their...

8/3,K/5 (Item 1 from file: 146)  
DIALOG(R)File 146:Washington Post Online  
(c) 2000 Washington Post. All rts. reserv.

143028  
**PATENTS Patents Granted to Area Residents**  
The Washington Post, June 30, 1986,  
By: By Joseph O. Evans, Maryland  
Section: F, p. 27  
Line Count: 153 Word Count: 1681

...intermodulation interference. No. 4,582,724. 8 claims.

John J. Bogasky of McLean, no assignors. **Checkout station** to reduce retail **theft** . No. 4,583,083. 22 claims.

Edward I. Lynch of Portsmouth, assignor to General Electric...

9/3,K/1 (Item 1 from file: 570)  
DIALOG(R)File 570:Gale Group MARS(R)  
(c) 2000 The Gale Group. All rts. reserv.

01826137 Supplier Number: 57479851 (USE FORMAT 7 FOR FULLTEXT)  
**Putting express in POS.(self-checkout systems)**  
Beyer, Leslie  
Grocery Headquarters, v63, n5, p112(3)  
May, 1997  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 1546

... the customer's bill.

To help avoid shrink, the system has a built-in rescan **mechanism** that is **triggered** on a random basis (approximately every 15 to 20 purchases) as shoppers go through the **checkout lane** .

Additionally, Riso said when customers sign the application to use the portable scanner, they agree...

?

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Bank Letter

February 8, 1993

SECTION: Vol. XVII, No. 5; Pg. 2

LENGTH: 476 words

HEADLINE: NEXT STEP IN SUPERMARKET CHECKOUTS COULD MEAN BIG BUCKS FOR BANKS

BYLINE: E. C.

BODY:

... itself in less than a year," countered Klein. The product does this in a number of ways, including increasing sales force productivity and reducing shrinkage caused by cashiers who give away items to customers at lower costs or not cost. Also, the grocer can leverage off the increase in shopper count since the product lures more customers into the stores, he added.

The self-service counters consist of a computerized price scanner, which displays each item's price, and a computer-generated voice that confirms the